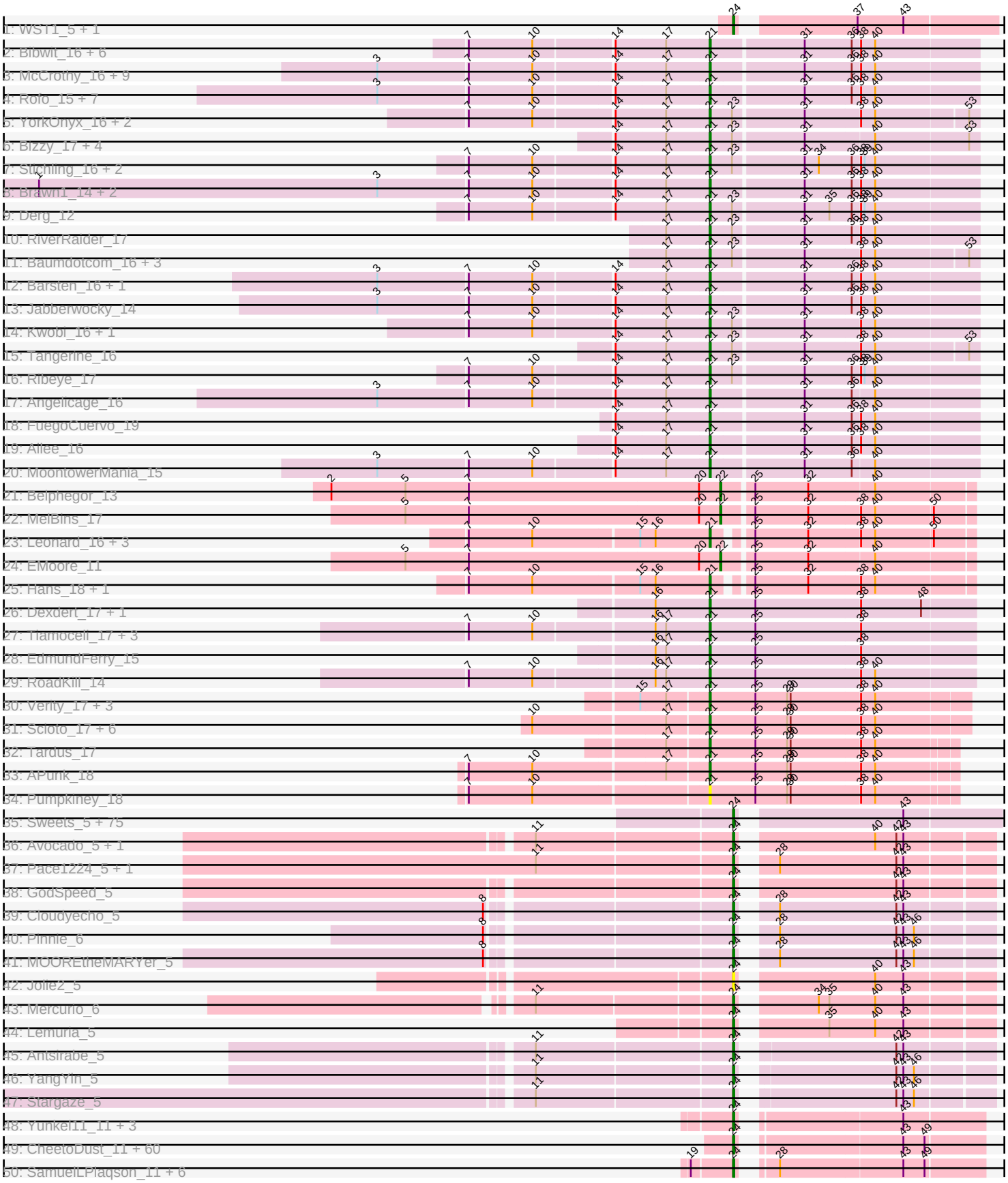
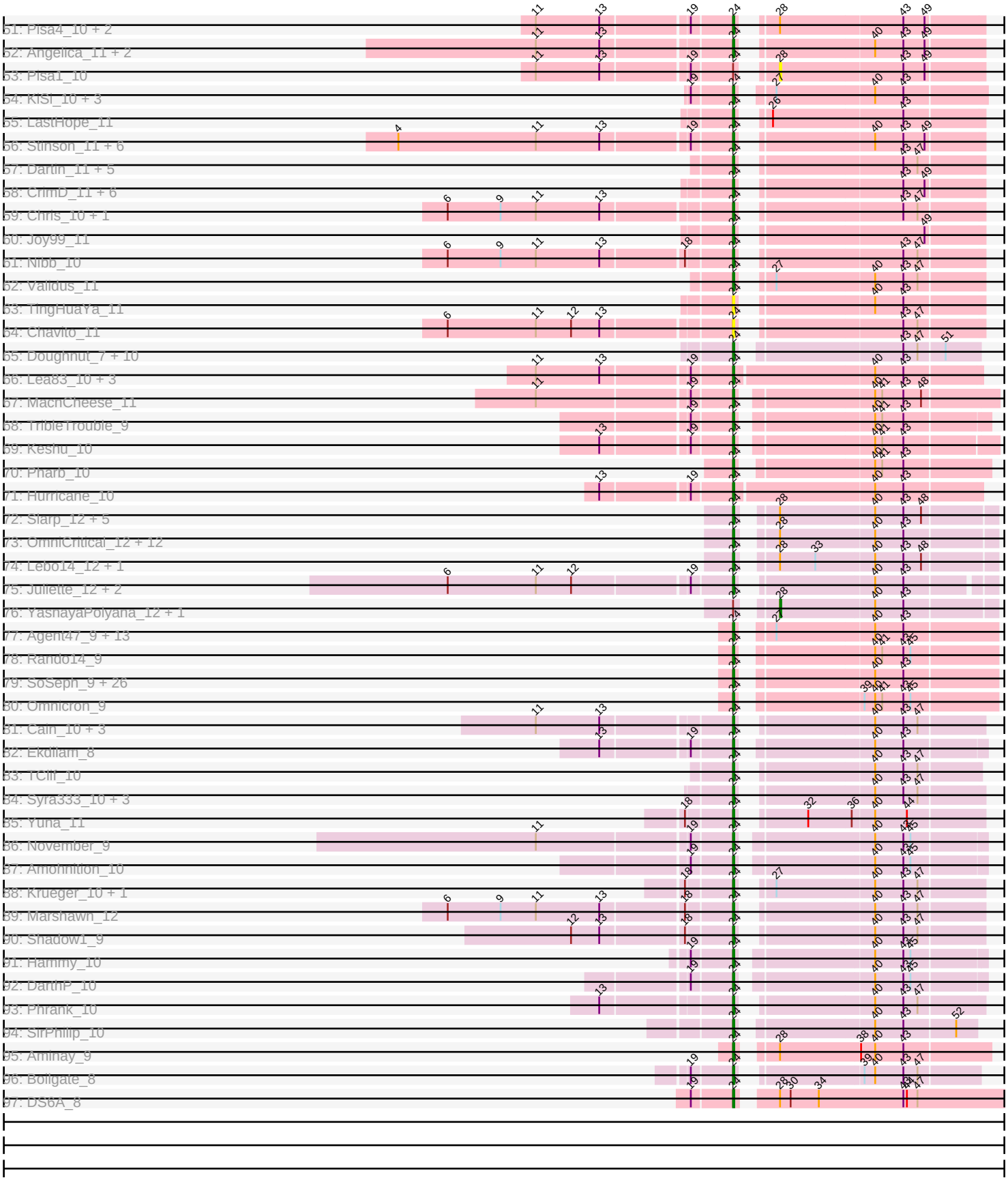
# Pham 347109


1: WST1_5 + 1
2: Bibwit_16 + 6
3: McCrothy_16 + 9
4: Rolo_15 + 7
5: YorkOnyx_16 + 2
6: Bizzy_17 + 4
7: Stichling_16 + 2
8: Brawn1_14 + 2
9: Derg_12
10: RiverRaider_17
11: Baumdotcom_16 + 3
12: Barsten_16 + 1
13: Jabberwocky_14
14: Kwobi_16 + 1
15: Tangerine_16
16: Ribeye_17
17: Angelicage_16
18: FuegoCuervo_19
19: Allee_16
20: MoontowerMania_15
21: Belphegor_13
22: MelBins_17
23: Leonard_16 + 3
24: EMoore_11
25: Hans_18 + 1
26: Dexdert_17 + 1
27: Tiamocell_17 + 3
28: EdmundFerry_15
29: RoadKill_14
30: Verity_17 + 3
31: Scioto_17 + 6
32: Tardus_17
33: APunk_18
34: Pumpkiney_18
35: Sweets_5 + 75
36: Avocado_5 + 1
37: Pace1224_5 + 1
38: GodSpeed_5
39: Cloudyecho_5
40: Pinnie_6
41: MOOREtheMARYer_5
42: Jolie2_5
43: Mercurio_6
44: Lemuria_5
45: Antsfrabe_5
46: YangYin_5
47: Stargaze_5
48: YunkelT1_11 + 3
49: CheetoDust_11 + 60
50: SamuelLPlaqson_11 + 6

# Pham 347109


51: Pisa4_10 + 2
52: Angelica_11 + 2
53: Pisa1_10
54: KiSi_10 + 3
55: LastHope_11
56: Stinson_11 + 6
57: Darlin_11 + 5
58: ChimD_11 + 6
59: Chris_10 + 1
60: Joy99_11
61: Nibb_10
62: Validus_11
63: TingHuaYa_11
64: Chavito_11
65: Doughnut_7 + 10
66: Lea83_10 + 3
67: MacnCheese_11
68: TrbleTrouble_9
69: Keshu_10
70: Pharb_10
71: Hurricane_10
72: Slarp_12 + 5
73: OmniCritical_12 + 12
74: Lebo14_12 + 1
75: Juliette_12 + 2
76: YashayaPolyana_12 + 1
77: Agent47_9 + 13
78: Rando14_9
79: SoSeph_9 + 26
80: Omnicron_9
81: Cain_10 + 3
82: Ekuliam_8
83: TCliff_10
84: Syra333_10 + 3
85: Yuna_11
86: November_9
87: Amohnition_10
88: Krueger_10 + 1
89: Marshawn_12
90: Shadow1_9
91: Hammy_10
92: DarthP_10
93: Phrank_10
94: SirPhilip_10
95: Aminay_9
96: Bollgate_8
97: DS6A_8

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 347109 Report

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

Pham number 347109 has 403 members, 27 are drafts.

Phages represented in each track:
• Track 1 : WST1_5, IdentityCrisis_5
• Track 2 : Bibwit_16, Sitar_17, Shivanishola_16, Geodirt_15, Stultus_16, Kewpiedoll_17, Lennon_17
• Track 3 : McCrothy_16, Charming_13, Tangent_13, Love_17, Galadriel_17, Paries_16, BobBob_13, Brandonk123_18, Nordenberg_10, McKinley_17
• Track 4 : Rofo_15, Thing3_17, Fosterous_13, Vivi2_15, Sedona_17, Kamashten_17, Keitabear_17, Affeca_16
• Track 5 : YorkOnyx_16, SchottB_15, LilHam_14
• Track 6 : Bizzy_17, Tycho_16, Kroos_16, Flatwoods_17, StorminNorm_16
• Track 7 : Stichling_16, Ashertheman_16, JKSyngboy_15
• Track 8 : Brawn1_14, Fitzgerald_14, Sanjuju_14
• Track 9 : Derg_12
• Track 10 : RiverRaider_17
• Track 11 : Baumdotcom_16, Saronaya_16, Gustavo_16, Gaea_16
• Track 12 : Barsten_16, ChadMasterC_16
• Track 13 : Jabberwocky_14
• Track 14 : Kwobi_16, Baddon_16
• Track 15 : Tangerine_16
• Track 16 : Ribeye_17
• Track 17 : Angelicage_16
• Track 18 : FuegoCuervo_19
• Track 19 : Ailee_16
• Track 20 : MoontowerMania_15
• Track 21 : Belphegor_13
• Track 22 : MelBins_17
• Track 23 : Leonard_16, Inspectinfecti_17, Phinally_16, Ali17_14
• Track 24 : EMoore_11
• Track 25 : Hans_18, Phauci_9
• Track 26 : Dexdert_17, Kwekel_16
• Track 27 : Tiamoceli_17, Twonlo_14, Chickadee_16, GTE6_17
• Track 28 : EdmundFerry_15
• Track 29 : RoadKill_14
• Track 30 : Verity_17, Delrey21_17, DoctorFroggo_17, Zipp_17
• Track 31 : Scioto_17, ViaConlectus_17, Abblin_17, Zitch_18, Natkenzie_17, Sampson_17, BigHunkinEater_20
• Track 32 : Tardus_17
• Track 33 : APunk_18

• Track 34 : Pumpkiney_18
• Track 35 : Sweets_5, Peeb_5, Maliketh_5, Rabbs_5, Cherrybomb426_5, AzulaCat_5, Phish_5, TinaBug_5, BruceB_5, Hope_5, Hotshotbaby7_5, Grizzly_5, DingDing_5, Camri_5, DNAIII_005, PinkYoshi_5, Kasen3_5, Plagueis_5, Wendigo_5, Gomashi_5, Primanti_5, Phloodle_5, Liefie_5, Sizemore_5, Barkley26_5, Marmie_5, ECartman_5, Jeilious_5, Jane_5, Zombie_5, AizenPogi_5, CLED96_5, Jonghyun_5, Renaissance_5, Remy19_5, Periodt_5, Crespo_5, Darionha_5, Mowgli_5, Halo_5, Terror_5, GoldenAsh_5, Schiebel_5, Frosty24_5, ZoMa_5, OctaviousRex_5, ForeverHowLong_5, BPs_5, Neoh_5, CassieYates_5, Paito_5, Cedasite_5, Olga_5, Richarlison_5, BQuat_5, ShaboiShabazz_5, Taheera_5, Phreak_5, Aroostook_5, Ruriko_5, JorRay_5, LouisV14_5, Gideon_5, Terralys_5, Jolene_5, Avrafan_5, TomBrady_5, Rattrick_5, Annihilator_5, MZKinsey_5, Sneeze_5, Kareem_5, Angel_5, DMoney_5, Chance64_5, Coleslaw_5
• Track 36 : Avocado_5, Cambiare_6
• Track 37 : Pace1224_5, FlagStaff_5
• Track 38 : GodSpeed_5
• Track 39 : Cloudyecho_5
• Track 40 : Pinnie_6
• Track 41 : MOOREtheMARYer_5
• Track 42 : Jolie2_5
• Track 43 : Mercurio_6
• Track 44 : Lemuria_5
• Track 45 : Antsirabe_5
• Track 46 : YangYin_5
• Track 47 : Stargaze_5
• Track 48 : Yunkel11_11, Curiosium_12, Efra2_11, Guanica15_11
• Track 49 : CheetoDust_11, Belladonna_11, Mynx_11, Durfee_11, Ganymede_11, Peel_11, CREW_11, Inky_11, Atiba_11, BaghaKamala_11, Zavala_11, Clipper_11, Capricorn_11, CallaLilly_11, Lunahalos_11, Adephagia_11, Tachez_11, Beezoo_11, Ramen_11, Rapunzel97_11, Jarvi_11, BGlluviae_11, Geraldini_11, Piatt_11, Boiiii_11, Hyperbowlee_11, Zabiza_11, Slimphazie_11, Pokerus_10, YoureAdopted_10, Spock_11, Twitch_11, QuincyRose_10, Emerson_11, Llorens_11, BarrelRoll_11, Jayhawk_11, CaseJules_11, Tiri_11, Asayake_11, Rosmarinus_11, Adonis_11, MacKat_11, Padfoot_11, Apocalypse_11, Topper_11, AlishaPH_11, Padpat_11, JAWS_11, Blizzard_11, BEEST_11, HedwigODU_11, Homura_11, MeaningOfLife_11, ShiaSurprise_11, TruffulaTree_11, Lokum_11, Dalmuri_11, ActinUp_11, Jeckyll_11, Veliki_11
• Track 50 : SamuelLPlaqson_11, Anma_11, Bella96_11, Urkel_11, DartGoblin_11, TiniBug_11, DrHayes_11
• Track 51 : Pisa4_10, Kheparia_12, Bern_11
• Track 52 : Angelica_11, Deby_11, Sulley_11
• Track 53 : Pisa1_10
• Track 54 : KiSi_10, Scarlett_10, LeMond_10, Oscar_10
• Track 55 : LastHope_11
• Track 56 : Stinson_11, Murucutumbu_11, Illumine_11, LaterM_11, Devera_11, Dole_11, Ageofdapage_11
• Track 57 : Dartin_11, Peanam_11, Shaobing_11, McMater_11, Richo_11, Niklas_11
• Track 58 : CrimD_11, Prithvi_11, Megsy_11, TreyKay_11, Anaya_12, LindNT_11, TaiwanKao_11
• Track 59 : Chris_10, MarkPhew_10
• Track 60 : Joy99_11
• Track 61 : Nibb_10
• Track 62 : Validus_11

• Track 63 : TingHuaYa_11
• Track 64 : Chavito_11
• Track 65 : Doughnut_7, DismalFunk_7, ZoeJ_7, Findley_7, Milly_7, Strobilo_7, BoostSeason_7, Marcoliusprime_7, TM4_7, Mufasa_7, DismalStressor_7
• Track 66 : Lea83_10, Pixie_10, ShedlockHolmes_10, TBond007_10
• Track 67 : MacnCheese_11
• Track 68 : TribleTrouble_9
• Track 69 : Keshu_10
• Track 70 : Pharb_10
• Track 71 : Hurricane_10
• Track 72 : Slarp_12, Nolwazi_12, Cheetobro_12, Chancellor_12, Qhanda_12, Taquito_10
• Track 73 : OmniCritical_12, Y2_12, MissDaisy_12, Fionnbharth_12, Y10_12, Kraw_12, Reptar3000_12, Wintermute_12, Mitti_12, Patt_12, JF1_12, Malthus_12, SamScheppers_10
• Track 74 : Lebo14_12, DanSyl44_12
• Track 75 : Juliette_12, Eponine_12, Ruthiejr_11
• Track 76 : YasnayaPolyana_12, Bobquesha_12
• Track 77 : Agent47_9, LilDirt_8, AlleyCat_9, Larva_9, Waterfoul_9, InvictusManeo_9, ViviJ_8, Feyre_9, Kratio_8, Neighly_9, Psycho_9, Edugator_8, Thyatira_9, Dadosky_9
• Track 78 : Rando14_9
• Track 79 : SoSeph_9, Gengar_9, Trice_7, Amelie_7, Miryou_9, DoubleChamp_9, Collard_9, OkiRoe_9, Leston_9, Heftyboy_9, SgtBeansprout_7, Torres_7, Teejan_7, Applecrisp_9, Guillsminger_9, Nutello_7, Nikao_7, Paola_9, Enkosi_7, Lavahound_9, Mdavu_7, BananenDer11_9, Ellie_8, Fefferhead_10, Amgine_9, Biglebops_7, LilPharaoh_7
• Track 80 : Omnicron_9
• Track 81 : Cain_10, Sunflower1121_9, Tierra_10, Bryler_10
• Track 82 : Ekdilam_8
• Track 83 : TClif_10
• Track 84 : Syra333_10, Unicorn_10, PhelpsODU_10, Ximenita_11
• Track 85 : Yuna_11
• Track 86 : November_9
• Track 87 : Amohnition_10
• Track 88 : Krueger_10, Tigress9_10
• Track 89 : Marshawn_12
• Track 90 : Shadow1_9
• Track 91 : Hammy_10
• Track 92 : DarthP_10
• Track 93 : Phrank_10
• Track 94 : SirPhilip_10
• Track 95 : Aminay_9
• Track 96 : Boilgate_8
• Track 97 : DS6A_8

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

The start number called the most often in the published annotations is 24, it was called in 293 of the 376 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_11, Adephagia_11, Adonis_11, Agent47_9, Ageofdapage_11, AizenPogi_5, AlishaPH_11, AlleyCat_9, Amelie_7, Amgine_9, Aminay_9, Amohnition_10, Anaya_12, Angel_5, Angelica_11, Anma_11, Annihilator_5, Antsirabe_5, Apocalypse_11, Applecrisp_9, Aroostook_5, Asayake_11, Atiba_11, Avocado_5, Avrafan_5, AzulaCat_5, BEEST_11, BGlluviae_11, BPs_5, BQuat_5, BaghaKamala_11, BananenDer11_9, Barkley26_5, BarrelRoll_11, Beezoo_11, Bella96_11, Belladonna_11, Bern_11, Biglebops_7, Blizzard_11, Boiiii_11, Boilgate_8, BoostSeason_7, BruceB_5, Bryler_10, CLED96_5, CREW_11, Cain_10, CallaLilly_11, Cambiare_6, Camri_5, Capricorn_11, CaseJules_11, CassieYates_5, Cedasite_5, Chance64_5, Chancellor_12, Chavito_11, CheetoDust_11, Cheetobro_12, Cherrybomb426_5, Chris_10, Clipper_11, Cloudyecho_5, Coleslaw_5, Collard_9, Crespo_5, CrimD_11, Curiosium_12, DMoney_5, DNAIII_005, DS6A_8, Dadosky_9, Dalmuri_11, DanSyl44_12, Darionha_5, DartGoblin_11, DarthP_10, Dartin_11, Deby_11, Devera_11, DingDing_5, DismalFunk_7, DismalStressor_7, Dole_11, DoubleChamp_9, Doughnut_7, DrHayes_11, Durfee_11, ECartman_5, Edugator_8, Efra2_11, Ekdilam_8, Ellie_8, Emerson_11, Enkosi_7, Eponine_12, Fefferhead_10, Feyre_9, Findley_7, Fionnbharth_12, FlagStaff_5, ForeverHowLong_5, Frosty24_5, Ganymede_11, Gengar_9, Geraldini_11, Gideon_5, GodSpeed_5, GoldenAsh_5, Gomashi_5, Grizzly_5, Guanica15_11, Guillsminger_9, Halo_5, Hammy_10, HedwigODU_11, Heftyboy_9, Homura_11, Hope_5, Hotshotbaby7_5, Hurricane_10, Hyperbowlee_11, IdentityCrisis_5, Illumine_11, Inky_11, InvictusManeo_9, JAWS_11, JF1_12, Jane_5, Jarvi_11, Jayhawk_11, Jeckyll_11, Jeilious_5, Jolene_5, Jolie2_5, Jonghyun_5, JorRay_5, Joy99_11, Juliette_12, Kareem_5, Kasen3_5, Keshu_10, Kheparia_12, KiSi_10, Kratio_8, Kraw_12, Krueger_10, Larva_9, LastHope_11, LaterM_11, Lavahound_9, LeMond_10, Lea83_10, Lebo14_12, Lemuria_5, Leston_9, Liefie_5, LilDirt_8, LilPharaoh_7, LindNT_11, Llorens_11, Lokum_11, LouisV14_5, Lunahalos_11, MOOREtheMARYer_5, MZKinsey_5, MacKat_11, MacnCheese_11, Maliketh_5, Malthus_12, Marcoliusprime_7, MarkPhew_10, Marmie_5, Marshawn_12, McMater_11, Mdavu_7, MeaningOfLife_11, Megsy_11, Mercurio_6, Milly_7, Miryou_9, MissDaisy_12, Mitti_12, Mowgli_5, Mufasa_7, Murucutumbu_11, Mynx_11, Neighly_9, Neoh_5, Nibb_10, Nikao_7, Niklas_11, Nolwazi_12, November_9, Nutello_7, OctaviousRex_5, OkiRoe_9, Olga_5, OmniCritical_12, Omnicron_9, Oscar_10, Pace1224_5, Padfoot_11, Padpat_11, Paito_5, Paola_9, Patt_12, Peanam_11, Peeb_5, Peel_11, Periodt_5, Pharb_10, PhelpsODU_10, Phish_5, Phloodle_5, Phrank_10, Phreak_5, Piatt_11, PinkYoshi_5, Pinnie_6, Pisa4_10, Pixie_10, Plagueis_5, Pokerus_10, Primanti_5, Prithvi_11, Psycho_9, Qhanda_12, QuincyRose_10, Rabbs_5, Ramen_11, Rando14_9, Rapunzel97_11, Rattrick_5, Remy19_5, Renaissance_5, Reptar3000_12, Richarlison_5, Richo_11, Rosmarinus_11, Ruriko_5, Ruthiejr_11, SamScheppers_10, SamuelLPlaqson_11, Scarlett_10, Schiebel_5, SgtBeansprout_7, ShaboiShabazz_5, Shadow1_9, Shaobing_11, ShedlockHolmes_10, ShiaSurprise_11, SirPhilip_10, Sizemore_5, Slarp_12, Slimphazie_11, Sneeze_5, SoSeph_9, Spock_11, Stargaze_5, Stinson_11, Strobilo_7, Sulley_11, Sunflower1121_9, Sweets_5, Syra333_10, TBond007_10, TClif_10, TM4_7, Tachez_11, Taheera_5, TaiwanKao_11, Taquito_10, Teejan_7, Terralys_5, Terror_5, Thyatira_9, Tierra_10, Tigress9_10, TinaBug_5, TingHuaYa_11, TiniBug_11, Tiri_11, TomBrady_5, Topper_11, Torres_7, TreyKay_11, TribleTrouble_9, Trice_7, TruffulaTree_11, Twitch_11, Unicorn_10, Urkel_11, Validus_11, Veliki_11, ViviJ_8, WST1_5, Waterfoul_9, Wendigo_5, Wintermute_12, Ximenita_11, Y10_12, Y2_12, YangYin_5, YoureAdopted_10, Yuna_11, Yunkel11_11, Zabiza_11, Zavala_11, ZoMa_5, ZoeJ_7, Zombie_5,

Genes that have the "Most Annotated" start but do not call it:
• Bobquesha_12, Pisa1_10, YasnayaPolyana_12,

Genes that do not have the "Most Annotated" start:
• APunk_18, Abblin_17, Affeca_16, Ailee_16, Ali17_14, Angelicage_16, Asherthеman_16, Baddon_16, Barsten_16, Baumdotcom_16, Belphegor_13, Bibwit_16, BigHunkinEater_20, Bizzy_17, BobBob_13, Brandonk123_18, Brawn1_14, ChadMasterC_16, Charming_13, Chickadee_16, Delrey21_17, Derg_12, Dexdert_17, DoctorFroggo_17, EMoore_11, EdmundFerry_15, Fitzgerald_14, Flatwoods_17, Fosterous_13, FuegoCuervo_19, GTE6_17, Gaea_16, Galadriel_17, Geodirt_15, Gustavo_16, Hans_18, Inspectinfecti_17, JKSyngboy_15, Jabberwocky_14, Kamashten_17, Keitabear_17, Kewpiedoll_17, Kroos_16, Kwekel_16, Kwobi_16, Lennon_17, Leonard_16, LilHam_14, Love_17, McCrothy_16, McKinley_17, MelBins_17, MoontowerMania_15, Natkenzie_17, Nordenberg_10, Paries_16, Phauci_9, Phinally_16, Pumpkiney_18, Ribeye_17, RiverRaider_17, RoadKill_14, Rofo_15, Sampson_17, Sanjuju_14, Saronaya_16, SchottB_15, Scioto_17, Sedona_17, Shivanishola_16, Sitar_17, Stichling_16, StorminNorm_16, Stultus_16, Tangent_13, Tangerine_16, Tardus_17, Thing3_17, Tiamoceli_17, Twonlo_14, Tycho_16, Verity_17, ViaConlectus_17, Vivi2_15, YorkOnyx_16, Zipp_17, Zitch_18,

**Summary by start number:**

Start 21:
• Found in 84 of 403 ( 20.8% ) of genes in pham
• Manual Annotations of this start: 79 of 376
• Called 100.0% of time when present
• Phage (with cluster) where this start called: APunk_18 (DE4), Abblin_17 (DE4), Affeca_16 (DE1), Ailee_16 (DE1), Ali17_14 (DE2), Angelicage_16 (DE1), Asherthеman_16 (DE1), Baddon_16 (DE1), Barsten_16 (DE1), Baumdotcom_16 (DE1), Bibwit_16 (DE1), BigHunkinEater_20 (DE4), Bizzy_17 (DE1), BobBob_13 (DE1), Brandonk123_18 (DE1), Brawn1_14 (DE1), ChadMasterC_16 (DE1), Charming_13 (DE1), Chickadee_16 (DE3), Delrey21_17 (DE4), Derg_12 (DE1), Dexdert_17 (DE3), DoctorFroggo_17 (DE4), EdmundFerry_15 (DE3), Fitzgerald_14 (DE1), Flatwoods_17 (DE1), Fosterous_13 (DE1), FuegoCuervo_19 (DE1), GTE6_17 (DE3), Gaea_16 (DE1), Galadriel_17 (DE1), Geodirt_15 (DE1), Gustavo_16 (DE1), Hans_18 (DE2), Inspectinfecti_17 (DE2), JKSyngboy_15 (DE1), Jabberwocky_14 (DE1), Kamashten_17 (DE1), Keitabear_17 (DE1), Kewpiedoll_17 (DE1), Kroos_16 (DE1), Kwekel_16 (DE3), Kwobi_16 (DE1), Lennon_17 (DE1), Leonard_16 (DE2), LilHam_14 (DE1), Love_17 (DE1), McCrothy_16 (DE1), McKinley_17 (DE1), MoontowerMania_15 (DE1), Natkenzie_17 (DE4), Nordenberg_10 (DE1), Paries_16 (DE1), Phauci_9 (DE2), Phinally_16 (DE2), Pumpkiney_18 (DE4), Ribeye_17 (DE1), RiverRaider_17 (DE1), RoadKill_14 (DE3), Rofo_15 (DE1), Sampson_17 (DE4), Sanjuju_14 (DE1), Saronaya_16 (DE1), SchottB_15 (DE1), Scioto_17 (DE4), Sedona_17 (DE1), Shivanishola_16 (DE1), Sitar_17 (DE1), Stichling_16 (DE1), StorminNorm_16 (DE1), Stultus_16 (DE1), Tangent_13 (DE1), Tangerine_16 (DE1), Tardus_17 (DE4), Thing3_17 (DE1), Tiamoceli_17 (DE3), Twonlo_14 (DE3), Tycho_16 (DE1), Verity_17 (DE4), ViaConlectus_17 (DE4), Vivi2_15 (DE1), YorkOnyx_16 (DE1), Zipp_17 (DE4), Zitch_18 (DE4),

Start 22:
• Found in 3 of 403 ( 0.7% ) of genes in pham
• Manual Annotations of this start: 3 of 376

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belphegor_13 (DE2), EMoore_11 (DE2), MelBins_17 (DE2),

Start 24:
• Found in 316 of 403 ( 78.4% ) of genes in pham
• Manual Annotations of this start: 293 of 376
• Called 99.1% of time when present
• Phage (with cluster) where this start called: ActinUp_11 (K1), Adephagia_11 (K1), Adonis_11 (K1), Agent47_9 (K5), Ageofdapage_11 (K1), AizenPogi_5 (G1), AlishaPH_11 (K1), AlleyCat_9 (K5), Amelie_7 (K1), Amgine_9 (K6), Aminay_9 (K7), Amohnition_10 (K6), Anaya_12 (K1), Angel_5 (G1), Angelica_11 (K1), Anma_11 (K1), Annihilator_5 (G1), Antsirabe_5 (G5), Apocalypse_11 (K1), Applecrisp_9 (K6), Aroostook_5 (G1), Asayake_11 (K1), Atiba_11 (K1), Avocado_5 (G2), Avrafan_5 (G1), AzulaCat_5 (G1), BEEST_11 (K1), BGlluviae_11 (K1), BPs_5 (G1), BQuat_5 (G1), BaghaKamala_11 (K1), BananenDer11_9 (K5), Barkley26_5 (G1), BarrelRoll_11 (K1), Beezoo_11 (K1), Bella96_11 (K1), Belladonna_11 (K1), Bern_11 (K1), Biglebops_7 (K1), Blizzard_11 (K1), Boiiii_11 (K1), Boilgate_8 (K8), BoostSeason_7 (K2), BruceB_5 (G1), Bryler_10 (K6), CLED96_5 (G1), CREW_11 (K1), Cain_10 (K6), CallaLilly_11 (K1), Cambiare_6 (G2), Camri_5 (G1), Capricorn_11 (K1), CaseJules_11 (K1), CassieYates_5 (G1), Cedasite_5 (G1), Chance64_5 (G1), Chancellor_12 (K4), Chavito_11 (K1), CheetoDust_11 (K1), Cheetobro_12 (K4), Cherrybomb426_5 (G1), Chris_10 (K1), Clipper_11 (K1), Cloudyecho_5 (G3), Coleslaw_5 (G1), Collard_9 (K5), Crespo_5 (G1), CrimD_11 (K1), Curiosium_12 (K1), DMoney_5 (G1), DNAIII_005 (G1), DS6A_8 (singleton), Dadosky_9 (K5), Dalmuri_11 (K1), DanSyl44_12 (K4), Darionha_5 (G1), DartGoblin_11 (K1), DarthP_10 (K6), Dartin_11 (K1), Deby_11 (K1), Devera_11 (K1), DingDing_5 (G1), DismalFunk_7 (K2), DismalStressor_7 (K2), Dole_11 (K1), DoubleChamp_9 (K5), Doughnut_7 (K2), DrHayes_11 (K1), Durfee_11 (K1), ECartman_5 (G1), Edugator_8 (K5), Efra2_11 (K1), Ekdilam_8 (K6), Ellie_8 (K6), Emerson_11 (K1), Enkosi_7 (K1), Eponine_12 (K4), Fefferhead_10 (K6), Feyre_9 (K5), Findley_7 (K2), Fionnbharth_12 (K4), FlagStaff_5 (G2), ForeverHowLong_5 (G1), Frosty24_5 (G1), Ganymede_11 (K1), Gengar_9 (K5), Geraldini_11 (K1), Gideon_5 (G1), GodSpeed_5 (G2), GoldenAsh_5 (G1), Gomashi_5 (G1), Grizzly_5 (G1), Guanica15_11 (K1), Guillsminger_9 (K5), Halo_5 (G1), Hammy_10 (K6), HedwigODU_11 (K1), Heftyboy_9 (K5), Homura_11 (K1), Hope_5 (G1), Hotshotbaby7_5 (G1), Hurricane_10 (K3), Hyperbowlee_11 (K1), IdentityCrisis_5 (AJ), Illumine_11 (K1), Inky_11 (K1), InvictusManeo_9 (K5), JAWS_11 (K1), JF1_12 (K4), Jane_5 (G1), Jarvi_11 (K1), Jayhawk_11 (K1), Jeckyll_11 (K1), Jeilious_5 (G), Jolene_5 (G1), Jolie2_5 (G4), Jonghyun_5 (G1), JorRay_5 (G1), Joy99_11 (K1), Juliette_12 (K4), Kareem_5 (G1), Kasen3_5 (G1), Keshu_10 (K3), Kheparia_12 (K1), KiSi_10 (K1), Kratio_8 (K5), Kraw_12 (K4), Krueger_10 (K6), Larva_9 (K5), LastHope_11 (K1), LaterM_11 (K1), Lavahound_9 (K6), LeMond_10 (K1), Lea83_10 (K3), Lebo14_12 (K4), Lemuria_5 (G4), Leston_9 (K5), Liefie_5 (G1), LilDirt_8 (K5), LilPharaoh_7 (K1), LindNT_11 (K1), Llorens_11 (K1), Lokum_11 (K1), LouisV14_5 (G1), Lunahalos_11 (K1), MOOREtheMARYer_5 (G3), MZKinsey_5 (G1), MacKat_11 (K1), MacnCheese_11 (K3), Maliketh_5 (G1), Malthus_12 (K4), Marcoliusprime_7 (K2), MarkPhew_10 (K1), Marmie_5 (G1), Marshawn_12 (K6), McMater_11 (K1), Mdavu_7 (K1), MeaningOfLife_11 (K1), Megsy_11 (K1), Mercurio_6 (G4), Milly_7 (K2), Miryou_9 (K5), MissDaisy_12 (K4), Mitti_12 (K4), Mowgli_5 (G1), Mufasa_7 (K2), Murucutumbu_11 (K1), Mynx_11 (K1), Neighly_9 (K3), Neoh_5 (G), Nibb_10 (K1), Nikao_7 (K1), Niklas_11 (K1), Nolwazi_12 (K4), November_9 (K6), Nutello_7 (K1), OctaviousRex_5 (G1), OkiRoe_9 (K5), Olga_5 (G1), OmniCritical_12 (K4),

Omnicron_9 (K5), Oscar_10 (K1), Pace1224_5 (G2), Padfoot_11 (K1), Padpat_11 (K1), Paito_5 (G1), Paola_9 (K5), Patt_12 (K4), Peanam_11 (K1), Peeb_5 (G1), Peel_11 (K1), Periodt_5 (G1), Pharb_10 (K3), PhelpsODU_10 (K6), Phish_5 (G1), Phloodle_5 (G1), Phrank_10 (K6), Phreak_5 (G1), Piatt_11 (K1), PinkYoshi_5 (G1), Pinnie_6 (G3), Pisa4_10 (K1), Pixie_10 (K3), Plagueis_5 (G1), Pokerus_10 (K1), Primanti_5 (G1), Prithvi_11 (K1), Psycho_9 (K5), Qhanda_12 (K4), QuincyRose_10 (K1), Rabbs_5 (G1), Ramen_11 (K1), Rando14_9 (K5), Rapunzel97_11 (K1), Rattrick_5 (G1), Remy19_5 (G1), Renaissance_5 (G1), Reptar3000_12 (K4), Richarlison_5 (G1), Richo_11 (K1), Rosmarinus_11 (K1), Ruriko_5 (G1), Ruthiejr_11 (K4), SamScheppers_10 (K4), SamuelLPlaqson_11 (K1), Scarlett_10 (K1), Schiebel_5 (G1), SgtBeansprout_7 (K1), ShaboiShabazz_5 (G1), Shadow1_9 (K6), Shaobing_11 (K1), ShedlockHolmes_10 (K3), ShiaSurprise_11 (K1), SirPhilip_10 (K6), Sizemore_5 (G1), Slarp_12 (K4), Slimphazie_11 (K1), Sneeze_5 (G1), SoSeph_9 (K5), Spock_11 (K1), Stargaze_5 (G5), Stinson_11 (K1), Strobilo_7 (K2), Sulley_11 (K1), Sunflower1121_9 (K6), Sweets_5 (G1), Syra333_10 (K6), TBond007_10 (K3), TClif_10 (K6), TM4_7 (K2), Tachez_11 (K1), Taheera_5 (G1), TaiwanKao_11 (K1), Taquito_10 (K4), Teejan_7 (K1), Terralys_5 (G1), Terror_5 (G1), Thyatira_9 (K5), Tierra_10 (K6), Tigress9_10 (K6), TinaBug_5 (G1), TingHuaYa_11 (K1), TiniBug_11 (K1), Tiri_11 (K1), TomBrady_5 (G1), Topper_11 (K1), Torres_7 (K1), TreyKay_11 (K1), TribleTrouble_9 (K3), Trice_7 (K1), TruffulaTree_11 (K1), Twitch_11 (K1), Unicorn_10 (K6), Urkel_11 (K1), Validus_11 (K1), Veliki_11 (K1), ViviJ_8 (K5), WST1_5 (AJ), Waterfoul_9 (K5), Wendigo_5 (G1), Wintermute_12 (K4), Ximenita_11 (K6), Y10_12 (K4), Y2_12 (K4), YangYin_5 (G5), YoureAdopted_10 (K1), Yuna_11 (K6), Yunkel11_11 (K1), Zabiza_11 (K1), Zavala_11 (K1), ZoMa_5 (G1), ZoeJ_7 (K2), Zombie_5 (G1),

Start 28:
• Found in 41 of 403 ( 10.2% ) of genes in pham
• Manual Annotations of this start: 1 of 376
• Called 7.3% of time when present
• Phage (with cluster) where this start called: Bobquesha_12 (K4), Pisa1_10 (K1), YasnayaPolyana_12 (K4),

**Summary by clusters:**

There are 20 clusters represented in this pham: singleton, G4, G3, G, G1, DE1, DE2, DE3, DE4, G5, AJ, K3, K2, K1, K7, K6, K5, K4, K8, G2,

Info for manual annotations of cluster AJ:
•Start number 24 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster DE1:
•Start number 21 was manually annotated 53 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 21 was manually annotated 6 times for cluster DE2.
•Start number 22 was manually annotated 3 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 21 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 21 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster G:
•Start number 24 was manually annotated 2 times for cluster G.

Info for manual annotations of cluster G1:
•Start number 24 was manually annotated 70 times for cluster G1.

Info for manual annotations of cluster G2:
•Start number 24 was manually annotated 4 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 24 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 24 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 24 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster K1:
•Start number 24 was manually annotated 113 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 24 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 24 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 24 was manually annotated 21 times for cluster K4.
•Start number 28 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:
•Start number 24 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 24 was manually annotated 26 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 24 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 24 was manually annotated 1 time for cluster K8.

### *Gene Information:*

Gene: APunk_18 Start: 12612, Stop: 12815, Start Num: 21
Candidate Starts for APunk_18:
(7, 12417), (10, 12471), (17, 12579), (Start: 21 @12612 has 79 MA's), (25, 12651), (29, 12678), (30, 12681), (38, 12738), (40, 12750),

Gene: Abblin_17 Start: 12098, Stop: 12313, Start Num: 21
Candidate Starts for Abblin_17:
(10, 11957), (17, 12065), (Start: 21 @12098 has 79 MA's), (25, 12137), (29, 12164), (30, 12167), (38, 12224), (40, 12236),

Gene: ActinUp_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for ActinUp_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Adephagia_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for Adephagia_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Adonis_11 Start: 7102, Stop: 7287, Start Num: 24
Candidate Starts for Adonis_11:
(Start: 24 @7102 has 293 MA's), (43, 7222), (49, 7240),

Gene: Affeca_16 Start: 12078, Stop: 12296, Start Num: 21
Candidate Starts for Affeca_16:
(3, 11808), (7, 11883), (10, 11937), (14, 12000), (17, 12042), (Start: 21 @12078 has 79 MA's), (31, 12153), (36, 12192), (38, 12198), (40, 12210),

Gene: Agent47_9 Start: 7126, Stop: 7326, Start Num: 24
Candidate Starts for Agent47_9:
(Start: 24 @7126 has 293 MA's), (27, 7144), (40, 7225), (43, 7249),

Gene: Ageofdapage_11 Start: 7034, Stop: 7240, Start Num: 24
Candidate Starts for Ageofdapage_11:
(4, 6761), (11, 6878), (13, 6932), (19, 7001), (Start: 24 @7034 has 293 MA's), (40, 7130), (43, 7154), (49, 7172),

Gene: Ailee_16 Start: 11968, Stop: 12186, Start Num: 21
Candidate Starts for Ailee_16:
(14, 11890), (17, 11932), (Start: 21 @11968 has 79 MA's), (31, 12043), (36, 12082), (38, 12088), (40, 12100),

Gene: AizenPogi_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for AizenPogi_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Ali17_14 Start: 10793, Stop: 10996, Start Num: 21
Candidate Starts for Ali17_14:
(7, 10595), (10, 10649), (15, 10736), (16, 10748), (Start: 21 @10793 has 79 MA's), (25, 10817), (32, 10862), (38, 10904), (40, 10916), (50, 10964),

Gene: AlishaPH_11 Start: 7093, Stop: 7278, Start Num: 24
Candidate Starts for AlishaPH_11:
(Start: 24 @7093 has 293 MA's), (43, 7213), (49, 7231),

Gene: AlleyCat_9 Start: 7021, Stop: 7221, Start Num: 24
Candidate Starts for AlleyCat_9:
(Start: 24 @7021 has 293 MA's), (27, 7039), (40, 7120), (43, 7144),

Gene: Amelie_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Amelie_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: Amgine_9 Start: 6664, Stop: 6846, Start Num: 24
Candidate Starts for Amgine_9:
(Start: 24 @6664 has 293 MA's), (40, 6763), (43, 6787),

Gene: Aminay_9 Start: 6956, Stop: 7150, Start Num: 24
Candidate Starts for Aminay_9:
(Start: 24 @6956 has 293 MA's), (Start: 28 @6977 has 1 MA's), (38, 7043), (40, 7055), (43, 7079),

Gene: Amohnition_10 Start: 6891, Stop: 7082, Start Num: 24
Candidate Starts for Amohnition_10:
(19, 6858), (Start: 24 @6891 has 293 MA's), (40, 6993), (43, 7017), (45, 7023),

Gene: Anaya_12 Start: 7096, Stop: 7281, Start Num: 24
Candidate Starts for Anaya_12:
(Start: 24 @7096 has 293 MA's), (43, 7216), (49, 7234),

Gene: Angel_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Angel_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Angelica_11 Start: 7070, Stop: 7255, Start Num: 24
Candidate Starts for Angelica_11:
(11, 6914), (13, 6968), (Start: 24 @7070 has 293 MA's), (40, 7166), (43, 7190), (49, 7208),

Gene: Angelicage_16 Start: 12501, Stop: 12719, Start Num: 21
Candidate Starts for Angelicage_16:
(3, 12231), (7, 12306), (10, 12360), (14, 12423), (17, 12465), (Start: 21 @12501 has 79 MA's), (31, 12576), (36, 12615), (40, 12633),

Gene: Anma_11 Start: 7043, Stop: 7228, Start Num: 24
Candidate Starts for Anma_11:
(19, 7010), (Start: 24 @7043 has 293 MA's), (Start: 28 @7061 has 1 MA's), (43, 7163), (49, 7181),

Gene: Annihilator_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Annihilator_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Antsirabe_5 Start: 6407, Stop: 6601, Start Num: 24
Candidate Starts for Antsirabe_5:
(11, 6245), (Start: 24 @6407 has 293 MA's), (42, 6524), (43, 6530),

Gene: Apocalypse_11 Start: 7069, Stop: 7254, Start Num: 24
Candidate Starts for Apocalypse_11:
(Start: 24 @7069 has 293 MA's), (43, 7189), (49, 7207),

Gene: Applecrisp_9 Start: 7062, Stop: 7244, Start Num: 24
Candidate Starts for Applecrisp_9:
(Start: 24 @7062 has 293 MA's), (40, 7161), (43, 7185),

Gene: Aroostook_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Aroostook_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Asayake_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Asayake_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Ashertheman_16 Start: 10750, Stop: 10968, Start Num: 21
Candidate Starts for Ashertheman_16:
(7, 10555), (10, 10609), (14, 10672), (17, 10714), (Start: 21 @10750 has 79 MA's), (23, 10768), (31, 10825), (34, 10837), (36, 10864), (38, 10870), (39, 10873), (40, 10882),

Gene: Atiba_11 Start: 7057, Stop: 7242, Start Num: 24
Candidate Starts for Atiba_11:
(Start: 24 @7057 has 293 MA's), (43, 7177), (49, 7195),

Gene: Avocado_5 Start: 6369, Stop: 6566, Start Num: 24
Candidate Starts for Avocado_5:
(11, 6207), (Start: 24 @6369 has 293 MA's), (40, 6471), (42, 6489), (43, 6495),

Gene: Avrafan_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Avrafan_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: AzulaCat_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for AzulaCat_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: BEEST_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for BEEST_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: BGlluviae_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for BGlluviae_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: BPs_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for BPs_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: BQuat_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for BQuat_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Baddon_16 Start: 11337, Stop: 11555, Start Num: 21
Candidate Starts for Baddon_16:
(7, 11142), (10, 11196), (14, 11259), (17, 11301), (Start: 21 @11337 has 79 MA's), (23, 11355), (31, 11412), (38, 11457), (40, 11469),

Gene: BaghaKamala_11 Start: 7067, Stop: 7252, Start Num: 24
Candidate Starts for BaghaKamala_11:
(Start: 24 @7067 has 293 MA's), (43, 7187), (49, 7205),

Gene: BananenDer11_9 Start: 7109, Stop: 7309, Start Num: 24
Candidate Starts for BananenDer11_9:
(Start: 24 @7109 has 293 MA's), (40, 7208), (43, 7232),

Gene: Barkley26_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Barkley26_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: BarrelRoll_11 Start: 7085, Stop: 7270, Start Num: 24
Candidate Starts for BarrelRoll_11:
(Start: 24 @7085 has 293 MA's), (43, 7205), (49, 7223),

Gene: Barsten_16 Start: 11562, Stop: 11780, Start Num: 21
Candidate Starts for Barsten_16:
(3, 11292), (7, 11367), (10, 11421), (14, 11484), (17, 11526), (Start: 21 @11562 has 79 MA's), (31, 11637), (36, 11676), (38, 11682), (40, 11694),

Gene: Baumdotcom_16 Start: 10671, Stop: 10886, Start Num: 21
Candidate Starts for Baumdotcom_16:
(17, 10635), (Start: 21 @10671 has 79 MA's), (23, 10689), (31, 10746), (38, 10791), (40, 10803), (53, 10878),

Gene: Beezoo_11 Start: 7117, Stop: 7302, Start Num: 24
Candidate Starts for Beezoo_11:
(Start: 24 @7117 has 293 MA's), (43, 7237), (49, 7255),

Gene: Bella96_11 Start: 7022, Stop: 7207, Start Num: 24
Candidate Starts for Bella96_11:
(19, 6989), (Start: 24 @7022 has 293 MA's), (Start: 28 @7040 has 1 MA's), (43, 7142), (49, 7160),

Gene: Belladonna_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Belladonna_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Belphegor_13 Start: 10042, Stop: 10245, Start Num: 22
Candidate Starts for Belphegor_13:
(2, 9712), (5, 9775), (7, 9829), (20, 10024), (Start: 22 @10042 has 3 MA's), (25, 10066), (32, 10111), (40, 10165),

Gene: Bern_11 Start: 7063, Stop: 7248, Start Num: 24
Candidate Starts for Bern_11:
(11, 6907), (13, 6961), (19, 7030), (Start: 24 @7063 has 293 MA's), (Start: 28 @7081 has 1 MA's), (43, 7183), (49, 7201),

Gene: Bibwit_16 Start: 11809, Stop: 12027, Start Num: 21
Candidate Starts for Bibwit_16:
(7, 11614), (10, 11668), (14, 11731), (17, 11773), (Start: 21 @11809 has 79 MA's), (31, 11884), (36, 11923), (38, 11929), (40, 11941),

Gene: BigHunkinEater_20 Start: 11222, Stop: 11437, Start Num: 21
Candidate Starts for BigHunkinEater_20:

(10, 11081), (17, 11189), (Start: 21 @11222 has 79 MA's), (25, 11261), (29, 11288), (30, 11291), (38, 11348), (40, 11360),

Gene: Biglebops_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Biglebops_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: Bizzy_17 Start: 10947, Stop: 11165, Start Num: 21
Candidate Starts for Bizzy_17:
(14, 10869), (17, 10911), (Start: 21 @10947 has 79 MA's), (23, 10965), (31, 11022), (40, 11079), (53, 11157),

Gene: Blizzard_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Blizzard_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: BobBob_13 Start: 10392, Stop: 10610, Start Num: 21
Candidate Starts for BobBob_13:
(3, 10122), (7, 10197), (10, 10251), (14, 10314), (17, 10356), (Start: 21 @10392 has 79 MA's), (31, 10467), (36, 10506), (38, 10512), (40, 10524),

Gene: Bobquesha_12 Start: 8027, Stop: 8206, Start Num: 28
Candidate Starts for Bobquesha_12:
(Start: 24 @8006 has 293 MA's), (Start: 28 @8027 has 1 MA's), (40, 8105), (43, 8129),

Gene: Boiiii_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Boiiii_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Boilgate_8 Start: 7027, Stop: 7209, Start Num: 24
Candidate Starts for Boilgate_8:
(19, 6994), (Start: 24 @7027 has 293 MA's), (39, 7114), (40, 7123), (43, 7147), (47, 7159),

Gene: BoostSeason_7 Start: 5076, Stop: 5261, Start Num: 24
Candidate Starts for BoostSeason_7:
(Start: 24 @5076 has 293 MA's), (43, 5199), (47, 5211), (51, 5232),

Gene: Brandonk123_18 Start: 11539, Stop: 11757, Start Num: 21
Candidate Starts for Brandonk123_18:
(3, 11269), (7, 11344), (10, 11398), (14, 11461), (17, 11503), (Start: 21 @11539 has 79 MA's), (31, 11614), (36, 11653), (38, 11659), (40, 11671),

Gene: Brawn1_14 Start: 11201, Stop: 11419, Start Num: 21
Candidate Starts for Brawn1_14:
(1, 10643), (3, 10931), (7, 11006), (10, 11060), (14, 11123), (17, 11165), (Start: 21 @11201 has 79 MA's), (31, 11276), (36, 11315), (38, 11321), (40, 11333),

Gene: BruceB_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for BruceB_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Bryler_10 Start: 5954, Stop: 6139, Start Num: 24
Candidate Starts for Bryler_10:

(11, 5798), (13, 5852), (Start: 24 @5954 has 293 MA's), (40, 6050), (43, 6074), (47, 6086),

Gene: CLED96_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for CLED96_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: CREW_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for CREW_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Cain_10 Start: 5942, Stop: 6127, Start Num: 24
Candidate Starts for Cain_10:
(11, 5786), (13, 5840), (Start: 24 @5942 has 293 MA's), (40, 6038), (43, 6062), (47, 6074),

Gene: CallaLilly_11 Start: 7064, Stop: 7249, Start Num: 24
Candidate Starts for CallaLilly_11:
(Start: 24 @7064 has 293 MA's), (43, 7184), (49, 7202),

Gene: Cambiare_6 Start: 6831, Stop: 7028, Start Num: 24
Candidate Starts for Cambiare_6:
(11, 6669), (Start: 24 @6831 has 293 MA's), (40, 6933), (42, 6951), (43, 6957),

Gene: Camri_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Camri_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Capricorn_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Capricorn_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: CaseJules_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for CaseJules_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: CassieYates_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for CassieYates_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Cedasite_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Cedasite_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: ChadMasterC_16 Start: 11192, Stop: 11410, Start Num: 21
Candidate Starts for ChadMasterC_16:
(3, 10922), (7, 10997), (10, 11051), (14, 11114), (17, 11156), (Start: 21 @11192 has 79 MA's), (31, 11267), (36, 11306), (38, 11312), (40, 11324),

Gene: Chance64_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Chance64_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Chancellor_12 Start: 8255, Stop: 8452, Start Num: 24
Candidate Starts for Chancellor_12:

(Start: 24 @8255 has 293 MA's), (Start: 28 @8276 has 1 MA's), (40, 8354), (43, 8378), (48, 8393),

Gene: Charming_13 Start: 10394, Stop: 10612, Start Num: 21
Candidate Starts for Charming_13:
(3, 10124), (7, 10199), (10, 10253), (14, 10316), (17, 10358), (Start: 21 @10394 has 79 MA's), (31, 10469), (36, 10508), (38, 10514), (40, 10526),

Gene: Chavito_11 Start: 6121, Stop: 6306, Start Num: 24
Candidate Starts for Chavito_11:
(6, 5890), (11, 5965), (12, 5995), (13, 6019), (Start: 24 @6121 has 293 MA's), (43, 6241), (47, 6253),

Gene: CheetoDust_11 Start: 7111, Stop: 7296, Start Num: 24
Candidate Starts for CheetoDust_11:
(Start: 24 @7111 has 293 MA's), (43, 7231), (49, 7249),

Gene: Cheetobro_12 Start: 8255, Stop: 8452, Start Num: 24
Candidate Starts for Cheetobro_12:
(Start: 24 @8255 has 293 MA's), (Start: 28 @8276 has 1 MA's), (40, 8354), (43, 8378), (48, 8393),

Gene: Cherrybomb426_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Cherrybomb426_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Chickadee_16 Start: 10244, Stop: 10465, Start Num: 21
Candidate Starts for Chickadee_16:
(7, 10049), (10, 10103), (16, 10199), (17, 10208), (Start: 21 @10244 has 79 MA's), (25, 10283), (38, 10370),

Gene: Chris_10 Start: 5925, Stop: 6110, Start Num: 24
Candidate Starts for Chris_10:
(6, 5694), (9, 5739), (11, 5769), (13, 5823), (Start: 24 @5925 has 293 MA's), (43, 6045), (47, 6057),

Gene: Clipper_11 Start: 7111, Stop: 7296, Start Num: 24
Candidate Starts for Clipper_11:
(Start: 24 @7111 has 293 MA's), (43, 7231), (49, 7249),

Gene: Cloudyecho_5 Start: 6358, Stop: 6555, Start Num: 24
Candidate Starts for Cloudyecho_5:
(8, 6166), (Start: 24 @6358 has 293 MA's), (Start: 28 @6379 has 1 MA's), (42, 6478), (43, 6484),

Gene: Coleslaw_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Coleslaw_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Collard_9 Start: 7109, Stop: 7309, Start Num: 24
Candidate Starts for Collard_9:
(Start: 24 @7109 has 293 MA's), (40, 7208), (43, 7232),

Gene: Crespo_5 Start: 6190, Stop: 6396, Start Num: 24
Candidate Starts for Crespo_5:
(Start: 24 @6190 has 293 MA's), (43, 6316),

Gene: CrimD_11 Start: 7063, Stop: 7248, Start Num: 24

Candidate Starts for CrimD_11:
(Start: 24 @7063 has 293 MA's), (43, 7183), (49, 7201),

Gene: Curiosium_12 Start: 6437, Stop: 6622, Start Num: 24
Candidate Starts for Curiosium_12:
(Start: 24 @6437 has 293 MA's), (43, 6557),

Gene: DMoney_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for DMoney_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: DNAIII_005 Start: 6198, Stop: 6404, Start Num: 24
Candidate Starts for DNAIII_005:
(Start: 24 @6198 has 293 MA's), (43, 6324),

Gene: DS6A_8 Start: 6719, Stop: 6934, Start Num: 24
Candidate Starts for DS6A_8:
(19, 6686), (Start: 24 @6719 has 293 MA's), (Start: 28 @6743 has 1 MA's), (30, 6752), (34, 6776), (43, 6848), (44, 6851), (47, 6860),

Gene: Dadosky_9 Start: 7021, Stop: 7221, Start Num: 24
Candidate Starts for Dadosky_9:
(Start: 24 @7021 has 293 MA's), (27, 7039), (40, 7120), (43, 7144),

Gene: Dalmuri_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Dalmuri_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: DanSyl44_12 Start: 8258, Stop: 8455, Start Num: 24
Candidate Starts for DanSyl44_12:
(Start: 24 @8258 has 293 MA's), (Start: 28 @8279 has 1 MA's), (33, 8309), (40, 8357), (43, 8381), (48, 8396),

Gene: Darionha_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Darionha_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: DartGoblin_11 Start: 7022, Stop: 7207, Start Num: 24
Candidate Starts for DartGoblin_11:
(19, 6989), (Start: 24 @7022 has 293 MA's), (Start: 28 @7040 has 1 MA's), (43, 7142), (49, 7160),

Gene: DarthP_10 Start: 6891, Stop: 7082, Start Num: 24
Candidate Starts for DarthP_10:
(19, 6858), (Start: 24 @6891 has 293 MA's), (40, 6993), (43, 7017), (45, 7023),

Gene: Dartin_11 Start: 6126, Stop: 6311, Start Num: 24
Candidate Starts for Dartin_11:
(Start: 24 @6126 has 293 MA's), (43, 6246), (47, 6258),

Gene: Deby_11 Start: 7070, Stop: 7255, Start Num: 24
Candidate Starts for Deby_11:
(11, 6914), (13, 6968), (Start: 24 @7070 has 293 MA's), (40, 7166), (43, 7190), (49, 7208),

Gene: Delrey21_17 Start: 11558, Stop: 11773, Start Num: 21
Candidate Starts for Delrey21_17:
(15, 11504), (17, 11525), (Start: 21 @11558 has 79 MA's), (25, 11597), (29, 11624), (30, 11627), (38, 11684), (40, 11696),

Gene: Derg_12 Start: 9963, Stop: 10181, Start Num: 21
Candidate Starts for Derg_12:
(7, 9768), (10, 9822), (14, 9885), (17, 9927), (Start: 21 @9963 has 79 MA's), (23, 9981), (31, 10038), (35, 10059), (36, 10077), (38, 10083), (39, 10086), (40, 10095),

Gene: Devera_11 Start: 7102, Stop: 7287, Start Num: 24
Candidate Starts for Devera_11:
(4, 6829), (11, 6946), (13, 7000), (19, 7069), (Start: 24 @7102 has 293 MA's), (40, 7198), (43, 7222), (49, 7240),

Gene: Dexdert_17 Start: 10675, Stop: 10896, Start Num: 21
Candidate Starts for Dexdert_17:
(16, 10630), (Start: 21 @10675 has 79 MA's), (25, 10714), (38, 10801), (48, 10852),

Gene: DingDing_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for DingDing_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: DismalFunk_7 Start: 5091, Stop: 5276, Start Num: 24
Candidate Starts for DismalFunk_7:
(Start: 24 @5091 has 293 MA's), (43, 5214), (47, 5226), (51, 5247),

Gene: DismalStressor_7 Start: 5091, Stop: 5276, Start Num: 24
Candidate Starts for DismalStressor_7:
(Start: 24 @5091 has 293 MA's), (43, 5214), (47, 5226), (51, 5247),

Gene: DoctorFroggo_17 Start: 11558, Stop: 11773, Start Num: 21
Candidate Starts for DoctorFroggo_17:
(15, 11504), (17, 11525), (Start: 21 @11558 has 79 MA's), (25, 11597), (29, 11624), (30, 11627), (38, 11684), (40, 11696),

Gene: Dole_11 Start: 7102, Stop: 7287, Start Num: 24
Candidate Starts for Dole_11:
(4, 6829), (11, 6946), (13, 7000), (19, 7069), (Start: 24 @7102 has 293 MA's), (40, 7198), (43, 7222), (49, 7240),

Gene: DoubleChamp_9 Start: 7109, Stop: 7309, Start Num: 24
Candidate Starts for DoubleChamp_9:
(Start: 24 @7109 has 293 MA's), (40, 7208), (43, 7232),

Gene: Doughnut_7 Start: 5076, Stop: 5261, Start Num: 24
Candidate Starts for Doughnut_7:
(Start: 24 @5076 has 293 MA's), (43, 5199), (47, 5211), (51, 5232),

Gene: DrHayes_11 Start: 7043, Stop: 7228, Start Num: 24
Candidate Starts for DrHayes_11:
(19, 7010), (Start: 24 @7043 has 293 MA's), (Start: 28 @7061 has 1 MA's), (43, 7163), (49, 7181),

Gene: Durfee_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Durfee_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: ECartman_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for ECartman_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: EMoore_11 Start: 9124, Stop: 9327, Start Num: 22
Candidate Starts for EMoore_11:
(5, 8857), (7, 8911), (20, 9106), (Start: 22 @9124 has 3 MA's), (25, 9148), (32, 9193), (40, 9247),

Gene: EdmundFerry_15 Start: 10262, Stop: 10483, Start Num: 21
Candidate Starts for EdmundFerry_15:
(16, 10217), (17, 10226), (Start: 21 @10262 has 79 MA's), (25, 10301), (38, 10388),

Gene: Edugator_8 Start: 7021, Stop: 7221, Start Num: 24
Candidate Starts for Edugator_8:
(Start: 24 @7021 has 293 MA's), (27, 7039), (40, 7120), (43, 7144),

Gene: Efra2_11 Start: 6040, Stop: 6225, Start Num: 24
Candidate Starts for Efra2_11:
(Start: 24 @6040 has 293 MA's), (43, 6160),

Gene: Ekdilam_8 Start: 6638, Stop: 6826, Start Num: 24
Candidate Starts for Ekdilam_8:
(13, 6536), (19, 6605), (Start: 24 @6638 has 293 MA's), (40, 6737), (43, 6761),

Gene: Ellie_8 Start: 6735, Stop: 6917, Start Num: 24
Candidate Starts for Ellie_8:
(Start: 24 @6735 has 293 MA's), (40, 6834), (43, 6858),

Gene: Emerson_11 Start: 7094, Stop: 7279, Start Num: 24
Candidate Starts for Emerson_11:
(Start: 24 @7094 has 293 MA's), (43, 7214), (49, 7232),

Gene: Enkosi_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Enkosi_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: Eponine_12 Start: 8142, Stop: 8330, Start Num: 24
Candidate Starts for Eponine_12:
(6, 7911), (11, 7986), (12, 8016), (19, 8109), (Start: 24 @8142 has 293 MA's), (40, 8238), (43, 8262),

Gene: Fefferhead_10 Start: 6905, Stop: 7087, Start Num: 24
Candidate Starts for Fefferhead_10:
(Start: 24 @6905 has 293 MA's), (40, 7004), (43, 7028),

Gene: Feyre_9 Start: 6924, Stop: 7124, Start Num: 24
Candidate Starts for Feyre_9:
(Start: 24 @6924 has 293 MA's), (27, 6942), (40, 7023), (43, 7047),

Gene: Findley_7 Start: 5091, Stop: 5276, Start Num: 24

Candidate Starts for Findley_7:
(Start: 24 @5091 has 293 MA's), (43, 5214), (47, 5226), (51, 5247),

Gene: Fionnbharth_12 Start: 8245, Stop: 8442, Start Num: 24
Candidate Starts for Fionnbharth_12:
(Start: 24 @8245 has 293 MA's), (Start: 28 @8266 has 1 MA's), (40, 8344), (43, 8368),

Gene: Fitzgerald_14 Start: 11299, Stop: 11517, Start Num: 21
Candidate Starts for Fitzgerald_14:
(1, 10741), (3, 11029), (7, 11104), (10, 11158), (14, 11221), (17, 11263), (Start: 21 @11299 has 79 MA's), (31, 11374), (36, 11413), (38, 11419), (40, 11431),

Gene: FlagStaff_5 Start: 6337, Stop: 6534, Start Num: 24
Candidate Starts for FlagStaff_5:
(11, 6175), (Start: 24 @6337 has 293 MA's), (Start: 28 @6358 has 1 MA's), (42, 6457), (43, 6463),

Gene: Flatwoods_17 Start: 10951, Stop: 11169, Start Num: 21
Candidate Starts for Flatwoods_17:
(14, 10873), (17, 10915), (Start: 21 @10951 has 79 MA's), (23, 10969), (31, 11026), (40, 11083), (53, 11161),

Gene: ForeverHowLong_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for ForeverHowLong_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Fosterous_13 Start: 11322, Stop: 11540, Start Num: 21
Candidate Starts for Fosterous_13:
(3, 11052), (7, 11127), (10, 11181), (14, 11244), (17, 11286), (Start: 21 @11322 has 79 MA's), (31, 11397), (36, 11436), (38, 11442), (40, 11454),

Gene: Frosty24_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Frosty24_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: FuegoCuervo_19 Start: 11024, Stop: 11242, Start Num: 21
Candidate Starts for FuegoCuervo_19:
(14, 10946), (17, 10988), (Start: 21 @11024 has 79 MA's), (31, 11099), (36, 11138), (38, 11144), (40, 11156),

Gene: GTE6_17 Start: 10760, Stop: 10981, Start Num: 21
Candidate Starts for GTE6_17:
(7, 10565), (10, 10619), (16, 10715), (17, 10724), (Start: 21 @10760 has 79 MA's), (25, 10799), (38, 10886),

Gene: Gaea_16 Start: 10651, Stop: 10866, Start Num: 21
Candidate Starts for Gaea_16:
(17, 10615), (Start: 21 @10651 has 79 MA's), (23, 10669), (31, 10726), (38, 10771), (40, 10783), (53, 10858),

Gene: Galadriel_17 Start: 11160, Stop: 11378, Start Num: 21
Candidate Starts for Galadriel_17:
(3, 10890), (7, 10965), (10, 11019), (14, 11082), (17, 11124), (Start: 21 @11160 has 79 MA's), (31, 11235), (36, 11274), (38, 11280), (40, 11292),

Gene: Ganymede_11 Start: 7111, Stop: 7296, Start Num: 24
Candidate Starts for Ganymede_11:
(Start: 24 @7111 has 293 MA's), (43, 7231), (49, 7249),

Gene: Gengar_9 Start: 7030, Stop: 7230, Start Num: 24
Candidate Starts for Gengar_9:
(Start: 24 @7030 has 293 MA's), (40, 7129), (43, 7153),

Gene: Geodirt_15 Start: 11049, Stop: 11267, Start Num: 21
Candidate Starts for Geodirt_15:
(7, 10854), (10, 10908), (14, 10971), (17, 11013), (Start: 21 @11049 has 79 MA's), (31, 11124), (36, 11163), (38, 11169), (40, 11181),

Gene: Geraldini_11 Start: 7117, Stop: 7302, Start Num: 24
Candidate Starts for Geraldini_11:
(Start: 24 @7117 has 293 MA's), (43, 7237), (49, 7255),

Gene: Gideon_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Gideon_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: GodSpeed_5 Start: 6328, Stop: 6525, Start Num: 24
Candidate Starts for GodSpeed_5:
(Start: 24 @6328 has 293 MA's), (42, 6448), (43, 6454),

Gene: GoldenAsh_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for GoldenAsh_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Gomashi_5 Start: 6190, Stop: 6396, Start Num: 24
Candidate Starts for Gomashi_5:
(Start: 24 @6190 has 293 MA's), (43, 6316),

Gene: Grizzly_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Grizzly_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Guanica15_11 Start: 6056, Stop: 6241, Start Num: 24
Candidate Starts for Guanica15_11:
(Start: 24 @6056 has 293 MA's), (43, 6176),

Gene: Guillsminger_9 Start: 7005, Stop: 7205, Start Num: 24
Candidate Starts for Guillsminger_9:
(Start: 24 @7005 has 293 MA's), (40, 7104), (43, 7128),

Gene: Gustavo_16 Start: 10762, Stop: 10977, Start Num: 21
Candidate Starts for Gustavo_16:
(17, 10726), (Start: 21 @10762 has 79 MA's), (23, 10780), (31, 10837), (38, 10882), (40, 10894), (53, 10969),

Gene: Halo_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Halo_5:

(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Hammy_10 Start: 6888, Stop: 7079, Start Num: 24
Candidate Starts for Hammy_10:
(19, 6855), (Start: 24 @6888 has 293 MA's), (40, 6990), (43, 7014), (45, 7020),

Gene: Hans_18 Start: 11337, Stop: 11540, Start Num: 21
Candidate Starts for Hans_18:
(7, 11139), (10, 11193), (15, 11280), (16, 11292), (Start: 21 @11337 has 79 MA's), (25, 11361), (32, 11406), (38, 11448), (40, 11460),

Gene: HedwigODU_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for HedwigODU_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Heftyboy_9 Start: 7132, Stop: 7332, Start Num: 24
Candidate Starts for Heftyboy_9:
(Start: 24 @7132 has 293 MA's), (40, 7231), (43, 7255),

Gene: Homura_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Homura_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Hope_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Hope_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Hotshotbaby7_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Hotshotbaby7_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Hurricane_10 Start: 7024, Stop: 7224, Start Num: 24
Candidate Starts for Hurricane_10:
(13, 6922), (19, 6991), (Start: 24 @7024 has 293 MA's), (40, 7138), (43, 7162),

Gene: Hyperbowlee_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Hyperbowlee_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: IdentityCrisis_5 Start: 5051, Stop: 5254, Start Num: 24
Candidate Starts for IdentityCrisis_5:
(Start: 24 @5051 has 293 MA's), (37, 5138), (43, 5177),

Gene: Illumine_11 Start: 7102, Stop: 7287, Start Num: 24
Candidate Starts for Illumine_11:
(4, 6829), (11, 6946), (13, 7000), (19, 7069), (Start: 24 @7102 has 293 MA's), (40, 7198), (43, 7222), (49, 7240),

Gene: Inky_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Inky_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Inspectinfecti_17 Start: 11796, Stop: 11999, Start Num: 21

Candidate Starts for Inspectinfecti_17:
(7, 11598), (10, 11652), (15, 11739), (16, 11751), (Start: 21 @11796 has 79 MA's), (25, 11820), (32, 11865), (38, 11907), (40, 11919), (50, 11967),

Gene: InvictusManeo_9 Start: 7129, Stop: 7329, Start Num: 24
Candidate Starts for InvictusManeo_9:
(Start: 24 @7129 has 293 MA's), (27, 7147), (40, 7228), (43, 7252),

Gene: JAWS_11 Start: 7088, Stop: 7273, Start Num: 24
Candidate Starts for JAWS_11:
(Start: 24 @7088 has 293 MA's), (43, 7208), (49, 7226),

Gene: JF1_12 Start: 8245, Stop: 8442, Start Num: 24
Candidate Starts for JF1_12:
(Start: 24 @8245 has 293 MA's), (Start: 28 @8266 has 1 MA's), (40, 8344), (43, 8368),

Gene: JKSyngboy_15 Start: 11150, Stop: 11368, Start Num: 21
Candidate Starts for JKSyngboy_15:
(7, 10955), (10, 11009), (14, 11072), (17, 11114), (Start: 21 @11150 has 79 MA's), (23, 11168), (31, 11225), (34, 11237), (36, 11264), (38, 11270), (39, 11273), (40, 11282),

Gene: Jabberwocky_14 Start: 11712, Stop: 11930, Start Num: 21
Candidate Starts for Jabberwocky_14:
(3, 11442), (7, 11517), (10, 11571), (14, 11634), (17, 11676), (Start: 21 @11712 has 79 MA's), (31, 11787), (36, 11826), (38, 11832), (40, 11844),

Gene: Jane_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Jane_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Jarvi_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Jarvi_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Jayhawk_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for Jayhawk_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Jeckyll_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Jeckyll_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Jeilious_5 Start: 6188, Stop: 6394, Start Num: 24
Candidate Starts for Jeilious_5:
(Start: 24 @6188 has 293 MA's), (43, 6314),

Gene: Jolene_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Jolene_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Jolie2_5 Start: 5346, Stop: 5543, Start Num: 24
Candidate Starts for Jolie2_5:
(Start: 24 @5346 has 293 MA's), (40, 5448), (43, 5472),

Gene: Jonghyun_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Jonghyun_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: JorRay_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for JorRay_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Joy99_11 Start: 7067, Stop: 7252, Start Num: 24
Candidate Starts for Joy99_11:
(Start: 24 @7067 has 293 MA's), (49, 7205),

Gene: Juliette_12 Start: 8142, Stop: 8330, Start Num: 24
Candidate Starts for Juliette_12:
(6, 7911), (11, 7986), (12, 8016), (19, 8109), (Start: 24 @8142 has 293 MA's), (40, 8238), (43, 8262),

Gene: Kamashten_17 Start: 12392, Stop: 12610, Start Num: 21
Candidate Starts for Kamashten_17:
(3, 12122), (7, 12197), (10, 12251), (14, 12314), (17, 12356), (Start: 21 @12392 has 79 MA's), (31, 12467), (36, 12506), (38, 12512), (40, 12524),

Gene: Kareem_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Kareem_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Kasen3_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Kasen3_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Keitabear_17 Start: 13525, Stop: 13743, Start Num: 21
Candidate Starts for Keitabear_17:
(3, 13255), (7, 13330), (10, 13384), (14, 13447), (17, 13489), (Start: 21 @13525 has 79 MA's), (31, 13600), (36, 13639), (38, 13645), (40, 13657),

Gene: Keshu_10 Start: 7012, Stop: 7212, Start Num: 24
Candidate Starts for Keshu_10:
(13, 6910), (19, 6979), (Start: 24 @7012 has 293 MA's), (40, 7114), (41, 7120), (43, 7138),

Gene: Kewpiedoll_17 Start: 11773, Stop: 11991, Start Num: 21
Candidate Starts for Kewpiedoll_17:
(7, 11578), (10, 11632), (14, 11695), (17, 11737), (Start: 21 @11773 has 79 MA's), (31, 11848), (36, 11887), (38, 11893), (40, 11905),

Gene: Kheparia_12 Start: 7063, Stop: 7248, Start Num: 24
Candidate Starts for Kheparia_12:
(11, 6907), (13, 6961), (19, 7030), (Start: 24 @7063 has 293 MA's), (Start: 28 @7081 has 1 MA's), (43, 7183), (49, 7201),

Gene: KiSi_10 Start: 5914, Stop: 6105, Start Num: 24
Candidate Starts for KiSi_10:
(19, 5881), (Start: 24 @5914 has 293 MA's), (27, 5932), (40, 6013), (43, 6037),

Gene: Kratio_8 Start: 6757, Stop: 6957, Start Num: 24
Candidate Starts for Kratio_8:
(Start: 24 @6757 has 293 MA's), (27, 6775), (40, 6856), (43, 6880),

Gene: Kraw_12 Start: 8164, Stop: 8361, Start Num: 24
Candidate Starts for Kraw_12:
(Start: 24 @8164 has 293 MA's), (Start: 28 @8185 has 1 MA's), (40, 8263), (43, 8287),

Gene: Kroos_16 Start: 10788, Stop: 11006, Start Num: 21
Candidate Starts for Kroos_16:
(14, 10710), (17, 10752), (Start: 21 @10788 has 79 MA's), (23, 10806), (31, 10863), (40, 10920), (53, 10998),

Gene: Krueger_10 Start: 5931, Stop: 6116, Start Num: 24
Candidate Starts for Krueger_10:
(18, 5895), (Start: 24 @5931 has 293 MA's), (27, 5946), (40, 6027), (43, 6051), (47, 6063),

Gene: Kwekel_16 Start: 10216, Stop: 10437, Start Num: 21
Candidate Starts for Kwekel_16:
(16, 10171), (Start: 21 @10216 has 79 MA's), (25, 10255), (38, 10342), (48, 10393),

Gene: Kwobi_16 Start: 10753, Stop: 10971, Start Num: 21
Candidate Starts for Kwobi_16:
(7, 10558), (10, 10612), (14, 10675), (17, 10717), (Start: 21 @10753 has 79 MA's), (23, 10771), (31, 10828), (38, 10873), (40, 10885),

Gene: Larva_9 Start: 6888, Stop: 7088, Start Num: 24
Candidate Starts for Larva_9:
(Start: 24 @6888 has 293 MA's), (27, 6906), (40, 6987), (43, 7011),

Gene: LastHope_11 Start: 6083, Stop: 6268, Start Num: 24
Candidate Starts for LastHope_11:
(Start: 24 @6083 has 293 MA's), (26, 6095), (43, 6203),

Gene: LaterM_11 Start: 7060, Stop: 7263, Start Num: 24
Candidate Starts for LaterM_11:
(4, 6787), (11, 6904), (13, 6958), (19, 7027), (Start: 24 @7060 has 293 MA's), (40, 7156), (43, 7180), (49, 7198),

Gene: Lavahound_9 Start: 6664, Stop: 6846, Start Num: 24
Candidate Starts for Lavahound_9:
(Start: 24 @6664 has 293 MA's), (40, 6763), (43, 6787),

Gene: LeMond_10 Start: 5914, Stop: 6105, Start Num: 24
Candidate Starts for LeMond_10:
(19, 5881), (Start: 24 @5914 has 293 MA's), (27, 5932), (40, 6013), (43, 6037),

Gene: Lea83_10 Start: 7015, Stop: 7215, Start Num: 24
Candidate Starts for Lea83_10:
(11, 6859), (13, 6913), (19, 6982), (Start: 24 @7015 has 293 MA's), (40, 7129), (43, 7153),

Gene: Lebo14_12 Start: 8258, Stop: 8455, Start Num: 24
Candidate Starts for Lebo14_12:

(Start: 24 @8258 has 293 MA's), (Start: 28 @8279 has 1 MA's), (33, 8309), (40, 8357), (43, 8381), (48, 8396),

Gene: Lemuria_5 Start: 5374, Stop: 5571, Start Num: 24
Candidate Starts for Lemuria_5:
(Start: 24 @5374 has 293 MA's), (35, 5437), (40, 5476), (43, 5500),

Gene: Lennon_17 Start: 12632, Stop: 12850, Start Num: 21
Candidate Starts for Lennon_17:
(7, 12437), (10, 12491), (14, 12554), (17, 12596), (Start: 21 @12632 has 79 MA's), (31, 12707), (36, 12746), (38, 12752), (40, 12764),

Gene: Leonard_16 Start: 11391, Stop: 11594, Start Num: 21
Candidate Starts for Leonard_16:
(7, 11193), (10, 11247), (15, 11334), (16, 11346), (Start: 21 @11391 has 79 MA's), (25, 11415), (32, 11460), (38, 11502), (40, 11514), (50, 11562),

Gene: Leston_9 Start: 7135, Stop: 7335, Start Num: 24
Candidate Starts for Leston_9:
(Start: 24 @7135 has 293 MA's), (40, 7234), (43, 7258),

Gene: Liefie_5 Start: 6188, Stop: 6394, Start Num: 24
Candidate Starts for Liefie_5:
(Start: 24 @6188 has 293 MA's), (43, 6314),

Gene: LilDirt_8 Start: 6887, Stop: 7087, Start Num: 24
Candidate Starts for LilDirt_8:
(Start: 24 @6887 has 293 MA's), (27, 6905), (40, 6986), (43, 7010),

Gene: LilHam_14 Start: 10069, Stop: 10284, Start Num: 21
Candidate Starts for LilHam_14:
(7, 9874), (10, 9928), (14, 9991), (17, 10033), (Start: 21 @10069 has 79 MA's), (23, 10087), (31, 10144), (38, 10189), (40, 10201), (53, 10276),

Gene: LilPharaoh_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for LilPharaoh_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: LindNT_11 Start: 7060, Stop: 7245, Start Num: 24
Candidate Starts for LindNT_11:
(Start: 24 @7060 has 293 MA's), (43, 7180), (49, 7198),

Gene: Llorens_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Llorens_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Lokum_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Lokum_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: LouisV14_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for LouisV14_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Love_17 Start: 11471, Stop: 11689, Start Num: 21
Candidate Starts for Love_17:
(3, 11201), (7, 11276), (10, 11330), (14, 11393), (17, 11435), (Start: 21 @11471 has 79 MA's), (31, 11546), (36, 11585), (38, 11591), (40, 11603),

Gene: Lunahalos_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Lunahalos_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: MOOREtheMARYer_5 Start: 6359, Stop: 6556, Start Num: 24
Candidate Starts for MOOREtheMARYer_5:
(8, 6167), (Start: 24 @6359 has 293 MA's), (Start: 28 @6380 has 1 MA's), (42, 6479), (43, 6485), (46, 6494),

Gene: MZKinsey_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for MZKinsey_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: MacKat_11 Start: 7111, Stop: 7296, Start Num: 24
Candidate Starts for MacKat_11:
(Start: 24 @7111 has 293 MA's), (43, 7231), (49, 7249),

Gene: MacnCheese_11 Start: 7234, Stop: 7437, Start Num: 24
Candidate Starts for MacnCheese_11:
(11, 7078), (19, 7201), (Start: 24 @7234 has 293 MA's), (40, 7336), (41, 7342), (43, 7360), (48, 7375),

Gene: Maliketh_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Maliketh_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Malthus_12 Start: 8164, Stop: 8361, Start Num: 24
Candidate Starts for Malthus_12:
(Start: 24 @8164 has 293 MA's), (Start: 28 @8185 has 1 MA's), (40, 8263), (43, 8287),

Gene: Marcoliusprime_7 Start: 5091, Stop: 5276, Start Num: 24
Candidate Starts for Marcoliusprime_7:
(Start: 24 @5091 has 293 MA's), (43, 5214), (47, 5226), (51, 5247),

Gene: MarkPhew_10 Start: 5832, Stop: 6017, Start Num: 24
Candidate Starts for MarkPhew_10:
(6, 5601), (9, 5646), (11, 5676), (13, 5730), (Start: 24 @5832 has 293 MA's), (43, 5952), (47, 5964),

Gene: Marmie_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Marmie_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Marshawn_12 Start: 6469, Stop: 6654, Start Num: 24
Candidate Starts for Marshawn_12:
(6, 6238), (9, 6283), (11, 6313), (13, 6367), (18, 6433), (Start: 24 @6469 has 293 MA's), (40, 6565), (43, 6589), (47, 6601),

Gene: McCrothy_16 Start: 11337, Stop: 11555, Start Num: 21

Candidate Starts for McCrothy_16:
(3, 11067), (7, 11142), (10, 11196), (14, 11259), (17, 11301), (Start: 21 @11337 has 79 MA's), (31, 11412), (36, 11451), (38, 11457), (40, 11469),

Gene: McKinley_17 Start: 11930, Stop: 12148, Start Num: 21
Candidate Starts for McKinley_17:
(3, 11660), (7, 11735), (10, 11789), (14, 11852), (17, 11894), (Start: 21 @11930 has 79 MA's), (31, 12005), (36, 12044), (38, 12050), (40, 12062),

Gene: McMater_11 Start: 6126, Stop: 6311, Start Num: 24
Candidate Starts for McMater_11:
(Start: 24 @6126 has 293 MA's), (43, 6246), (47, 6258),

Gene: Mdavu_7 Start: 6324, Stop: 6512, Start Num: 24
Candidate Starts for Mdavu_7:
(Start: 24 @6324 has 293 MA's), (40, 6420), (43, 6444),

Gene: MeaningOfLife_11 Start: 7064, Stop: 7249, Start Num: 24
Candidate Starts for MeaningOfLife_11:
(Start: 24 @7064 has 293 MA's), (43, 7184), (49, 7202),

Gene: Megsy_11 Start: 7063, Stop: 7248, Start Num: 24
Candidate Starts for Megsy_11:
(Start: 24 @7063 has 293 MA's), (43, 7183), (49, 7201),

Gene: MelBins_17 Start: 11587, Stop: 11790, Start Num: 22
Candidate Starts for MelBins_17:
(5, 11320), (7, 11374), (20, 11569), (Start: 22 @11587 has 3 MA's), (25, 11611), (32, 11656), (38, 11698), (40, 11710), (50, 11758),

Gene: Mercurio_6 Start: 6020, Stop: 6217, Start Num: 24
Candidate Starts for Mercurio_6:
(11, 5861), (Start: 24 @6020 has 293 MA's), (34, 6074), (35, 6083), (40, 6122), (43, 6146),

Gene: Milly_7 Start: 5091, Stop: 5276, Start Num: 24
Candidate Starts for Milly_7:
(Start: 24 @5091 has 293 MA's), (43, 5214), (47, 5226), (51, 5247),

Gene: Miryou_9 Start: 7005, Stop: 7205, Start Num: 24
Candidate Starts for Miryou_9:
(Start: 24 @7005 has 293 MA's), (40, 7104), (43, 7128),

Gene: MissDaisy_12 Start: 8030, Stop: 8227, Start Num: 24
Candidate Starts for MissDaisy_12:
(Start: 24 @8030 has 293 MA's), (Start: 28 @8051 has 1 MA's), (40, 8129), (43, 8153),

Gene: Mitti_12 Start: 8168, Stop: 8365, Start Num: 24
Candidate Starts for Mitti_12:
(Start: 24 @8168 has 293 MA's), (Start: 28 @8189 has 1 MA's), (40, 8267), (43, 8291),

Gene: MoontowerMania_15 Start: 10935, Stop: 11153, Start Num: 21
Candidate Starts for MoontowerMania_15:

(3, 10665), (7, 10740), (10, 10794), (14, 10857), (17, 10899), (Start: 21 @10935 has 79 MA's), (31, 11010), (36, 11049), (40, 11067),

Gene: Mowgli_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Mowgli_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Mufasa_7 Start: 5076, Stop: 5261, Start Num: 24
Candidate Starts for Mufasa_7:
(Start: 24 @5076 has 293 MA's), (43, 5199), (47, 5211), (51, 5232),

Gene: Murucutumbu_11 Start: 7054, Stop: 7239, Start Num: 24
Candidate Starts for Murucutumbu_11:
(4, 6781), (11, 6898), (13, 6952), (19, 7021), (Start: 24 @7054 has 293 MA's), (40, 7150), (43, 7174), (49, 7192),

Gene: Mynx_11 Start: 7114, Stop: 7299, Start Num: 24
Candidate Starts for Mynx_11:
(Start: 24 @7114 has 293 MA's), (43, 7234), (49, 7252),

Gene: Natkenzie_17 Start: 12098, Stop: 12313, Start Num: 21
Candidate Starts for Natkenzie_17:
(10, 11957), (17, 12065), (Start: 21 @12098 has 79 MA's), (25, 12137), (29, 12164), (30, 12167), (38, 12224), (40, 12236),

Gene: Neighly_9 Start: 6887, Stop: 7087, Start Num: 24
Candidate Starts for Neighly_9:
(Start: 24 @6887 has 293 MA's), (27, 6905), (40, 6986), (43, 7010),

Gene: Neoh_5 Start: 6190, Stop: 6396, Start Num: 24
Candidate Starts for Neoh_5:
(Start: 24 @6190 has 293 MA's), (43, 6316),

Gene: Nibb_10 Start: 5969, Stop: 6154, Start Num: 24
Candidate Starts for Nibb_10:
(6, 5738), (9, 5783), (11, 5813), (13, 5867), (18, 5933), (Start: 24 @5969 has 293 MA's), (43, 6089), (47, 6101),

Gene: Nikao_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Nikao_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: Niklas_11 Start: 6126, Stop: 6311, Start Num: 24
Candidate Starts for Niklas_11:
(Start: 24 @6126 has 293 MA's), (43, 6246), (47, 6258),

Gene: Nolwazi_12 Start: 8169, Stop: 8366, Start Num: 24
Candidate Starts for Nolwazi_12:
(Start: 24 @8169 has 293 MA's), (Start: 28 @8190 has 1 MA's), (40, 8268), (43, 8292), (48, 8307),

Gene: Nordenberg_10 Start: 9821, Stop: 10039, Start Num: 21
Candidate Starts for Nordenberg_10:

(3, 9551), (7, 9626), (10, 9680), (14, 9743), (17, 9785), (Start: 21 @9821 has 79 MA's), (31, 9896), (36, 9935), (38, 9941), (40, 9953),

Gene: November_9 Start: 6739, Stop: 6930, Start Num: 24
Candidate Starts for November_9:
(11, 6583), (19, 6706), (Start: 24 @6739 has 293 MA's), (40, 6841), (43, 6865), (45, 6871),

Gene: Nutello_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Nutello_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: OctaviousRex_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for OctaviousRex_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: OkiRoe_9 Start: 7006, Stop: 7206, Start Num: 24
Candidate Starts for OkiRoe_9:
(Start: 24 @7006 has 293 MA's), (40, 7105), (43, 7129),

Gene: Olga_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Olga_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: OmniCritical_12 Start: 8155, Stop: 8352, Start Num: 24
Candidate Starts for OmniCritical_12:
(Start: 24 @8155 has 293 MA's), (Start: 28 @8176 has 1 MA's), (40, 8254), (43, 8278),

Gene: Omnicron_9 Start: 5991, Stop: 6191, Start Num: 24
Candidate Starts for Omnicron_9:
(Start: 24 @5991 has 293 MA's), (39, 6081), (40, 6090), (41, 6096), (43, 6114), (45, 6120),

Gene: Oscar_10 Start: 5915, Stop: 6106, Start Num: 24
Candidate Starts for Oscar_10:
(19, 5882), (Start: 24 @5915 has 293 MA's), (27, 5933), (40, 6014), (43, 6038),

Gene: Pace1224_5 Start: 6337, Stop: 6534, Start Num: 24
Candidate Starts for Pace1224_5:
(11, 6175), (Start: 24 @6337 has 293 MA's), (Start: 28 @6358 has 1 MA's), (42, 6457), (43, 6463),

Gene: Padfoot_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Padfoot_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Padpat_11 Start: 7094, Stop: 7279, Start Num: 24
Candidate Starts for Padpat_11:
(Start: 24 @7094 has 293 MA's), (43, 7214), (49, 7232),

Gene: Paito_5 Start: 6250, Stop: 6456, Start Num: 24
Candidate Starts for Paito_5:
(Start: 24 @6250 has 293 MA's), (43, 6376),

Gene: Paola_9 Start: 7005, Stop: 7205, Start Num: 24
Candidate Starts for Paola_9:

(Start: 24 @7005 has 293 MA's), (40, 7104), (43, 7128),

Gene: Paries_16 Start: 11162, Stop: 11380, Start Num: 21
Candidate Starts for Paries_16:
(3, 10892), (7, 10967), (10, 11021), (14, 11084), (17, 11126), (Start: 21 @11162 has 79 MA's), (31, 11237), (36, 11276), (38, 11282), (40, 11294),

Gene: Patt_12 Start: 8006, Stop: 8203, Start Num: 24
Candidate Starts for Patt_12:
(Start: 24 @8006 has 293 MA's), (Start: 28 @8027 has 1 MA's), (40, 8105), (43, 8129),

Gene: Peanam_11 Start: 6126, Stop: 6311, Start Num: 24
Candidate Starts for Peanam_11:
(Start: 24 @6126 has 293 MA's), (43, 6246), (47, 6258),

Gene: Peeb_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Peeb_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Peel_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Peel_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Periodt_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Periodt_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Pharb_10 Start: 6867, Stop: 7061, Start Num: 24
Candidate Starts for Pharb_10:
(Start: 24 @6867 has 293 MA's), (40, 6966), (41, 6972), (43, 6990),

Gene: Phauci_9 Start: 7921, Stop: 8124, Start Num: 21
Candidate Starts for Phauci_9:
(7, 7723), (10, 7777), (15, 7864), (16, 7876), (Start: 21 @7921 has 79 MA's), (25, 7945), (32, 7990), (38, 8032), (40, 8044),

Gene: PhelpsODU_10 Start: 5982, Stop: 6167, Start Num: 24
Candidate Starts for PhelpsODU_10:
(Start: 24 @5982 has 293 MA's), (40, 6078), (43, 6102), (47, 6114),

Gene: Phinally_16 Start: 11388, Stop: 11591, Start Num: 21
Candidate Starts for Phinally_16:
(7, 11190), (10, 11244), (15, 11331), (16, 11343), (Start: 21 @11388 has 79 MA's), (25, 11412), (32, 11457), (38, 11499), (40, 11511), (50, 11559),

Gene: Phish_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Phish_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Phloodle_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Phloodle_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Phrank_10 Start: 5942, Stop: 6127, Start Num: 24
Candidate Starts for Phrank_10:
(13, 5840), (Start: 24 @5942 has 293 MA's), (40, 6038), (43, 6062), (47, 6074),

Gene: Phreak_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Phreak_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Piatt_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Piatt_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: PinkYoshi_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for PinkYoshi_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Pinnie_6 Start: 6829, Stop: 7026, Start Num: 24
Candidate Starts for Pinnie_6:
(8, 6637), (Start: 24 @6829 has 293 MA's), (Start: 28 @6850 has 1 MA's), (42, 6949), (43, 6955), (46, 6964),

Gene: Pisa1_10 Start: 6878, Stop: 7045, Start Num: 28
Candidate Starts for Pisa1_10:
(11, 6704), (13, 6758), (19, 6827), (Start: 24 @6860 has 293 MA's), (Start: 28 @6878 has 1 MA's), (43, 6980), (49, 6998),

Gene: Pisa4_10 Start: 6860, Stop: 7045, Start Num: 24
Candidate Starts for Pisa4_10:
(11, 6704), (13, 6758), (19, 6827), (Start: 24 @6860 has 293 MA's), (Start: 28 @6878 has 1 MA's), (43, 6980), (49, 6998),

Gene: Pixie_10 Start: 6766, Stop: 6966, Start Num: 24
Candidate Starts for Pixie_10:
(11, 6610), (13, 6664), (19, 6733), (Start: 24 @6766 has 293 MA's), (40, 6880), (43, 6904),

Gene: Plagueis_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Plagueis_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Pokerus_10 Start: 7048, Stop: 7233, Start Num: 24
Candidate Starts for Pokerus_10:
(Start: 24 @7048 has 293 MA's), (43, 7168), (49, 7186),

Gene: Primanti_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Primanti_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Prithvi_11 Start: 7060, Stop: 7245, Start Num: 24
Candidate Starts for Prithvi_11:
(Start: 24 @7060 has 293 MA's), (43, 7180), (49, 7198),

Gene: Psycho_9 Start: 7018, Stop: 7218, Start Num: 24
Candidate Starts for Psycho_9:

(Start: 24 @7018 has 293 MA's), (27, 7036), (40, 7117), (43, 7141),

Gene: Pumpkiney_18 Start: 10528, Stop: 10731, Start Num: 21
Candidate Starts for Pumpkiney_18:
(7, 10333), (10, 10387), (Start: 21 @10528 has 79 MA's), (25, 10567), (29, 10594), (30, 10597), (38, 10654), (40, 10666),

Gene: Qhanda_12 Start: 8264, Stop: 8461, Start Num: 24
Candidate Starts for Qhanda_12:
(Start: 24 @8264 has 293 MA's), (Start: 28 @8285 has 1 MA's), (40, 8363), (43, 8387), (48, 8402),

Gene: QuincyRose_10 Start: 7111, Stop: 7296, Start Num: 24
Candidate Starts for QuincyRose_10:
(Start: 24 @7111 has 293 MA's), (43, 7231), (49, 7249),

Gene: Rabbs_5 Start: 6190, Stop: 6396, Start Num: 24
Candidate Starts for Rabbs_5:
(Start: 24 @6190 has 293 MA's), (43, 6316),

Gene: Ramen_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for Ramen_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Rando14_9 Start: 6020, Stop: 6220, Start Num: 24
Candidate Starts for Rando14_9:
(Start: 24 @6020 has 293 MA's), (40, 6119), (41, 6125), (43, 6143), (45, 6149),

Gene: Rapunzel97_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for Rapunzel97_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Rattrick_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Rattrick_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Remy19_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Remy19_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Renaissance_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Renaissance_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Reptar3000_12 Start: 8005, Stop: 8205, Start Num: 24
Candidate Starts for Reptar3000_12:
(Start: 24 @8005 has 293 MA's), (Start: 28 @8026 has 1 MA's), (40, 8104), (43, 8128),

Gene: Ribeye_17 Start: 10948, Stop: 11166, Start Num: 21
Candidate Starts for Ribeye_17:
(7, 10753), (10, 10807), (14, 10870), (17, 10912), (Start: 21 @10948 has 79 MA's), (23, 10966), (31, 11023), (36, 11062), (38, 11068), (39, 11071), (40, 11080),

Gene: Richarlison_5 Start: 6189, Stop: 6395, Start Num: 24

Candidate Starts for Richarlison_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Richo_11 Start: 6126, Stop: 6311, Start Num: 24
Candidate Starts for Richo_11:
(Start: 24 @6126 has 293 MA's), (43, 6246), (47, 6258),

Gene: RiverRaider_17 Start: 10375, Stop: 10593, Start Num: 21
Candidate Starts for RiverRaider_17:
(17, 10339), (Start: 21 @10375 has 79 MA's), (23, 10393), (31, 10450), (36, 10489), (38, 10495), (40, 10507),

Gene: RoadKill_14 Start: 9718, Stop: 9939, Start Num: 21
Candidate Starts for RoadKill_14:
(7, 9523), (10, 9577), (16, 9673), (17, 9682), (Start: 21 @9718 has 79 MA's), (25, 9757), (38, 9844), (40, 9856),

Gene: Rofo_15 Start: 11414, Stop: 11632, Start Num: 21
Candidate Starts for Rofo_15:
(3, 11144), (7, 11219), (10, 11273), (14, 11336), (17, 11378), (Start: 21 @11414 has 79 MA's), (31, 11489), (36, 11528), (38, 11534), (40, 11546),

Gene: Rosmarinus_11 Start: 7123, Stop: 7308, Start Num: 24
Candidate Starts for Rosmarinus_11:
(Start: 24 @7123 has 293 MA's), (43, 7243), (49, 7261),

Gene: Ruriko_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Ruriko_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Ruthiejr_11 Start: 7873, Stop: 8061, Start Num: 24
Candidate Starts for Ruthiejr_11:
(6, 7642), (11, 7717), (12, 7747), (19, 7840), (Start: 24 @7873 has 293 MA's), (40, 7969), (43, 7993),

Gene: SamScheppers_10 Start: 7771, Stop: 7968, Start Num: 24
Candidate Starts for SamScheppers_10:
(Start: 24 @7771 has 293 MA's), (Start: 28 @7792 has 1 MA's), (40, 7870), (43, 7894),

Gene: Sampson_17 Start: 12043, Stop: 12258, Start Num: 21
Candidate Starts for Sampson_17:
(10, 11902), (17, 12010), (Start: 21 @12043 has 79 MA's), (25, 12082), (29, 12109), (30, 12112), (38, 12169), (40, 12181),

Gene: SamuelLPlaqson_11 Start: 7043, Stop: 7228, Start Num: 24
Candidate Starts for SamuelLPlaqson_11:
(19, 7010), (Start: 24 @7043 has 293 MA's), (Start: 28 @7061 has 1 MA's), (43, 7163), (49, 7181),

Gene: Sanjuju_14 Start: 11339, Stop: 11557, Start Num: 21
Candidate Starts for Sanjuju_14:
(1, 10781), (3, 11069), (7, 11144), (10, 11198), (14, 11261), (17, 11303), (Start: 21 @11339 has 79 MA's), (31, 11414), (36, 11453), (38, 11459), (40, 11471),

Gene: Saronaya_16 Start: 10762, Stop: 10977, Start Num: 21

Candidate Starts for Saronaya_16:
(17, 10726), (Start: 21 @10762 has 79 MA's), (23, 10780), (31, 10837), (38, 10882), (40, 10894), (53, 10969),

Gene: Scarlett_10 Start: 5914, Stop: 6105, Start Num: 24
Candidate Starts for Scarlett_10:
(19, 5881), (Start: 24 @5914 has 293 MA's), (27, 5932), (40, 6013), (43, 6037),

Gene: Schiebel_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Schiebel_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: SchottB_15 Start: 11751, Stop: 11966, Start Num: 21
Candidate Starts for SchottB_15:
(7, 11556), (10, 11610), (14, 11673), (17, 11715), (Start: 21 @11751 has 79 MA's), (23, 11769), (31, 11826), (38, 11871), (40, 11883), (53, 11958),

Gene: Scioto_17 Start: 12098, Stop: 12313, Start Num: 21
Candidate Starts for Scioto_17:
(10, 11957), (17, 12065), (Start: 21 @12098 has 79 MA's), (25, 12137), (29, 12164), (30, 12167), (38, 12224), (40, 12236),

Gene: Sedona_17 Start: 13258, Stop: 13476, Start Num: 21
Candidate Starts for Sedona_17:
(3, 12988), (7, 13063), (10, 13117), (14, 13180), (17, 13222), (Start: 21 @13258 has 79 MA's), (31, 13333), (36, 13372), (38, 13378), (40, 13390),

Gene: SgtBeansprout_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for SgtBeansprout_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: ShaboiShabazz_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for ShaboiShabazz_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Shadow1_9 Start: 5853, Stop: 6038, Start Num: 24
Candidate Starts for Shadow1_9:
(12, 5727), (13, 5751), (18, 5817), (Start: 24 @5853 has 293 MA's), (40, 5949), (43, 5973), (47, 5985),

Gene: Shaobing_11 Start: 6126, Stop: 6311, Start Num: 24
Candidate Starts for Shaobing_11:
(Start: 24 @6126 has 293 MA's), (43, 6246), (47, 6258),

Gene: ShedlockHolmes_10 Start: 7015, Stop: 7215, Start Num: 24
Candidate Starts for ShedlockHolmes_10:
(11, 6859), (13, 6913), (19, 6982), (Start: 24 @7015 has 293 MA's), (40, 7129), (43, 7153),

Gene: ShiaSurprise_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for ShiaSurprise_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Shivanishola_16 Start: 11656, Stop: 11874, Start Num: 21
Candidate Starts for Shivanishola_16:

(7, 11461), (10, 11515), (14, 11578), (17, 11620), (Start: 21 @11656 has 79 MA's), (31, 11731), (36, 11770), (38, 11776), (40, 11788),

Gene: SirPhilip_10 Start: 5800, Stop: 5982, Start Num: 24
Candidate Starts for SirPhilip_10:
(Start: 24 @5800 has 293 MA's), (40, 5899), (43, 5923), (52, 5965),

Gene: Sitar_17 Start: 12632, Stop: 12850, Start Num: 21
Candidate Starts for Sitar_17:
(7, 12437), (10, 12491), (14, 12554), (17, 12596), (Start: 21 @12632 has 79 MA's), (31, 12707), (36, 12746), (38, 12752), (40, 12764),

Gene: Sizemore_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Sizemore_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Slarp_12 Start: 8255, Stop: 8452, Start Num: 24
Candidate Starts for Slarp_12:
(Start: 24 @8255 has 293 MA's), (Start: 28 @8276 has 1 MA's), (40, 8354), (43, 8378), (48, 8393),

Gene: Slimphazie_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for Slimphazie_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Sneeze_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Sneeze_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: SoSeph_9 Start: 7132, Stop: 7332, Start Num: 24
Candidate Starts for SoSeph_9:
(Start: 24 @7132 has 293 MA's), (40, 7231), (43, 7255),

Gene: Spock_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Spock_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Stargaze_5 Start: 6400, Stop: 6594, Start Num: 24
Candidate Starts for Stargaze_5:
(11, 6238), (Start: 24 @6400 has 293 MA's), (42, 6517), (43, 6523), (46, 6532),

Gene: Stichling_16 Start: 10023, Stop: 10241, Start Num: 21
Candidate Starts for Stichling_16:
(7, 9828), (10, 9882), (14, 9945), (17, 9987), (Start: 21 @10023 has 79 MA's), (23, 10041), (31, 10098), (34, 10110), (36, 10137), (38, 10143), (39, 10146), (40, 10155),

Gene: Stinson_11 Start: 7066, Stop: 7251, Start Num: 24
Candidate Starts for Stinson_11:
(4, 6793), (11, 6910), (13, 6964), (19, 7033), (Start: 24 @7066 has 293 MA's), (40, 7162), (43, 7186), (49, 7204),

Gene: StorminNorm_16 Start: 10639, Stop: 10857, Start Num: 21
Candidate Starts for StorminNorm_16:

(14, 10561), (17, 10603), (Start: 21 @10639 has 79 MA's), (23, 10657), (31, 10714), (40, 10771), (53, 10849),

Gene: Strobilo_7 Start: 5091, Stop: 5276, Start Num: 24
Candidate Starts for Strobilo_7:
(Start: 24 @5091 has 293 MA's), (43, 5214), (47, 5226), (51, 5247),

Gene: Stultus_16 Start: 11631, Stop: 11849, Start Num: 21
Candidate Starts for Stultus_16:
(7, 11436), (10, 11490), (14, 11553), (17, 11595), (Start: 21 @11631 has 79 MA's), (31, 11706), (36, 11745), (38, 11751), (40, 11763),

Gene: Sulley_11 Start: 7070, Stop: 7255, Start Num: 24
Candidate Starts for Sulley_11:
(11, 6914), (13, 6968), (Start: 24 @7070 has 293 MA's), (40, 7166), (43, 7190), (49, 7208),

Gene: Sunflower1121_9 Start: 5855, Stop: 6040, Start Num: 24
Candidate Starts for Sunflower1121_9:
(11, 5699), (13, 5753), (Start: 24 @5855 has 293 MA's), (40, 5951), (43, 5975), (47, 5987),

Gene: Sweets_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Sweets_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Syra333_10 Start: 5951, Stop: 6136, Start Num: 24
Candidate Starts for Syra333_10:
(Start: 24 @5951 has 293 MA's), (40, 6047), (43, 6071), (47, 6083),

Gene: TBond007_10 Start: 6765, Stop: 6965, Start Num: 24
Candidate Starts for TBond007_10:
(11, 6609), (13, 6663), (19, 6732), (Start: 24 @6765 has 293 MA's), (40, 6879), (43, 6903),

Gene: TClif_10 Start: 5883, Stop: 6065, Start Num: 24
Candidate Starts for TClif_10:
(Start: 24 @5883 has 293 MA's), (40, 5979), (43, 6003), (47, 6015),

Gene: TM4_7 Start: 5113, Stop: 5298, Start Num: 24
Candidate Starts for TM4_7:
(Start: 24 @5113 has 293 MA's), (43, 5236), (47, 5248), (51, 5269),

Gene: Tachez_11 Start: 7057, Stop: 7242, Start Num: 24
Candidate Starts for Tachez_11:
(Start: 24 @7057 has 293 MA's), (43, 7177), (49, 7195),

Gene: Taheera_5 Start: 6199, Stop: 6405, Start Num: 24
Candidate Starts for Taheera_5:
(Start: 24 @6199 has 293 MA's), (43, 6325),

Gene: TaiwanKao_11 Start: 7066, Stop: 7251, Start Num: 24
Candidate Starts for TaiwanKao_11:
(Start: 24 @7066 has 293 MA's), (43, 7186), (49, 7204),

Gene: Tangent_13 Start: 10394, Stop: 10612, Start Num: 21

Candidate Starts for Tangent_13:
(3, 10124), (7, 10199), (10, 10253), (14, 10316), (17, 10358), (Start: 21 @10394 has 79 MA's), (31, 10469), (36, 10508), (38, 10514), (40, 10526),

Gene: Tangerine_16 Start: 10648, Stop: 10863, Start Num: 21
Candidate Starts for Tangerine_16:
(14, 10570), (17, 10612), (Start: 21 @10648 has 79 MA's), (23, 10666), (31, 10723), (38, 10768), (40, 10780), (53, 10855),

Gene: Taquito_10 Start: 7847, Stop: 8044, Start Num: 24
Candidate Starts for Taquito_10:
(Start: 24 @7847 has 293 MA's), (Start: 28 @7868 has 1 MA's), (40, 7946), (43, 7970), (48, 7985),

Gene: Tardus_17 Start: 10346, Stop: 10549, Start Num: 21
Candidate Starts for Tardus_17:
(17, 10313), (Start: 21 @10346 has 79 MA's), (25, 10385), (29, 10412), (30, 10415), (38, 10472), (40, 10484),

Gene: Teejan_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Teejan_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: Terralys_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Terralys_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Terror_5 Start: 6199, Stop: 6405, Start Num: 24
Candidate Starts for Terror_5:
(Start: 24 @6199 has 293 MA's), (43, 6325),

Gene: Thing3_17 Start: 12392, Stop: 12610, Start Num: 21
Candidate Starts for Thing3_17:
(3, 12122), (7, 12197), (10, 12251), (14, 12314), (17, 12356), (Start: 21 @12392 has 79 MA's), (31, 12467), (36, 12506), (38, 12512), (40, 12524),

Gene: Thyatira_9 Start: 7005, Stop: 7205, Start Num: 24
Candidate Starts for Thyatira_9:
(Start: 24 @7005 has 293 MA's), (27, 7023), (40, 7104), (43, 7128),

Gene: Tiamoceli_17 Start: 11101, Stop: 11322, Start Num: 21
Candidate Starts for Tiamoceli_17:
(7, 10906), (10, 10960), (16, 11056), (17, 11065), (Start: 21 @11101 has 79 MA's), (25, 11140), (38, 11227),

Gene: Tierra_10 Start: 6646, Stop: 6831, Start Num: 24
Candidate Starts for Tierra_10:
(11, 6490), (13, 6544), (Start: 24 @6646 has 293 MA's), (40, 6742), (43, 6766), (47, 6778),

Gene: Tigress9_10 Start: 5931, Stop: 6116, Start Num: 24
Candidate Starts for Tigress9_10:
(18, 5895), (Start: 24 @5931 has 293 MA's), (27, 5946), (40, 6027), (43, 6051), (47, 6063),

Gene: TinaBug_5 Start: 6189, Stop: 6395, Start Num: 24

Candidate Starts for TinaBug_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: TingHuaYa_11 Start: 6087, Stop: 6272, Start Num: 24
Candidate Starts for TingHuaYa_11:
(Start: 24 @6087 has 293 MA's), (40, 6183), (43, 6207),

Gene: TiniBug_11 Start: 7043, Stop: 7228, Start Num: 24
Candidate Starts for TiniBug_11:
(19, 7010), (Start: 24 @7043 has 293 MA's), (Start: 28 @7061 has 1 MA's), (43, 7163), (49, 7181),

Gene: Tiri_11 Start: 7102, Stop: 7287, Start Num: 24
Candidate Starts for Tiri_11:
(Start: 24 @7102 has 293 MA's), (43, 7222), (49, 7240),

Gene: TomBrady_5 Start: 6190, Stop: 6396, Start Num: 24
Candidate Starts for TomBrady_5:
(Start: 24 @6190 has 293 MA's), (43, 6316),

Gene: Topper_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Topper_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Torres_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Torres_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: TreyKay_11 Start: 7060, Stop: 7245, Start Num: 24
Candidate Starts for TreyKay_11:
(Start: 24 @7060 has 293 MA's), (43, 7180), (49, 7198),

Gene: TribleTrouble_9 Start: 6819, Stop: 7013, Start Num: 24
Candidate Starts for TribleTrouble_9:
(19, 6786), (Start: 24 @6819 has 293 MA's), (40, 6921), (41, 6927), (43, 6945),

Gene: Trice_7 Start: 6336, Stop: 6524, Start Num: 24
Candidate Starts for Trice_7:
(Start: 24 @6336 has 293 MA's), (40, 6432), (43, 6456),

Gene: TruffulaTree_11 Start: 7088, Stop: 7273, Start Num: 24
Candidate Starts for TruffulaTree_11:
(Start: 24 @7088 has 293 MA's), (43, 7208), (49, 7226),

Gene: Twitch_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Twitch_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Twonlo_14 Start: 9718, Stop: 9939, Start Num: 21
Candidate Starts for Twonlo_14:
(7, 9523), (10, 9577), (16, 9673), (17, 9682), (Start: 21 @9718 has 79 MA's), (25, 9757), (38, 9844),

Gene: Tycho_16 Start: 10762, Stop: 10980, Start Num: 21
Candidate Starts for Tycho_16:

(14, 10684), (17, 10726), (Start: 21 @10762 has 79 MA's), (23, 10780), (31, 10837), (40, 10894), (53, 10972),

Gene: Unicorn_10 Start: 5982, Stop: 6167, Start Num: 24
Candidate Starts for Unicorn_10:
(Start: 24 @5982 has 293 MA's), (40, 6078), (43, 6102), (47, 6114),

Gene: Urkel_11 Start: 7043, Stop: 7228, Start Num: 24
Candidate Starts for Urkel_11:
(19, 7010), (Start: 24 @7043 has 293 MA's), (Start: 28 @7061 has 1 MA's), (43, 7163), (49, 7181),

Gene: Validus_11 Start: 6042, Stop: 6227, Start Num: 24
Candidate Starts for Validus_11:
(Start: 24 @6042 has 293 MA's), (27, 6057), (40, 6138), (43, 6162), (47, 6174),

Gene: Veliki_11 Start: 7135, Stop: 7320, Start Num: 24
Candidate Starts for Veliki_11:
(Start: 24 @7135 has 293 MA's), (43, 7255), (49, 7273),

Gene: Verity_17 Start: 11558, Stop: 11773, Start Num: 21
Candidate Starts for Verity_17:
(15, 11504), (17, 11525), (Start: 21 @11558 has 79 MA's), (25, 11597), (29, 11624), (30, 11627), (38, 11684), (40, 11696),

Gene: ViaConlectus_17 Start: 12113, Stop: 12328, Start Num: 21
Candidate Starts for ViaConlectus_17:
(10, 11972), (17, 12080), (Start: 21 @12113 has 79 MA's), (25, 12152), (29, 12179), (30, 12182), (38, 12239), (40, 12251),

Gene: Vivi2_15 Start: 11586, Stop: 11804, Start Num: 21
Candidate Starts for Vivi2_15:
(3, 11316), (7, 11391), (10, 11445), (14, 11508), (17, 11550), (Start: 21 @11586 has 79 MA's), (31, 11661), (36, 11700), (38, 11706), (40, 11718),

Gene: ViviJ_8 Start: 6887, Stop: 7087, Start Num: 24
Candidate Starts for ViviJ_8:
(Start: 24 @6887 has 293 MA's), (27, 6905), (40, 6986), (43, 7010),

Gene: WST1_5 Start: 5051, Stop: 5254, Start Num: 24
Candidate Starts for WST1_5:
(Start: 24 @5051 has 293 MA's), (37, 5138), (43, 5177),

Gene: Waterfoul_9 Start: 7027, Stop: 7227, Start Num: 24
Candidate Starts for Waterfoul_9:
(Start: 24 @7027 has 293 MA's), (27, 7045), (40, 7126), (43, 7150),

Gene: Wendigo_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Wendigo_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: Wintermute_12 Start: 8244, Stop: 8441, Start Num: 24
Candidate Starts for Wintermute_12:
(Start: 24 @8244 has 293 MA's), (Start: 28 @8265 has 1 MA's), (40, 8343), (43, 8367),

Gene: Ximenita_11 Start: 6118, Stop: 6303, Start Num: 24
Candidate Starts for Ximenita_11:
(Start: 24 @6118 has 293 MA's), (40, 6214), (43, 6238), (47, 6250),

Gene: Y10_12 Start: 8245, Stop: 8442, Start Num: 24
Candidate Starts for Y10_12:
(Start: 24 @8245 has 293 MA's), (Start: 28 @8266 has 1 MA's), (40, 8344), (43, 8368),

Gene: Y2_12 Start: 8245, Stop: 8442, Start Num: 24
Candidate Starts for Y2_12:
(Start: 24 @8245 has 293 MA's), (Start: 28 @8266 has 1 MA's), (40, 8344), (43, 8368),

Gene: YangYin_5 Start: 6400, Stop: 6594, Start Num: 24
Candidate Starts for YangYin_5:
(11, 6238), (Start: 24 @6400 has 293 MA's), (42, 6517), (43, 6523), (46, 6532),

Gene: YasnayaPolyana_12 Start: 8266, Stop: 8442, Start Num: 28
Candidate Starts for YasnayaPolyana_12:
(Start: 24 @8245 has 293 MA's), (Start: 28 @8266 has 1 MA's), (40, 8344), (43, 8368),

Gene: YorkOnyx_16 Start: 10597, Stop: 10812, Start Num: 21
Candidate Starts for YorkOnyx_16:
(7, 10402), (10, 10456), (14, 10519), (17, 10561), (Start: 21 @10597 has 79 MA's), (23, 10615), (31, 10672), (38, 10717), (40, 10729), (53, 10804),

Gene: YoureAdopted_10 Start: 7064, Stop: 7249, Start Num: 24
Candidate Starts for YoureAdopted_10:
(Start: 24 @7064 has 293 MA's), (43, 7184), (49, 7202),

Gene: Yuna_11 Start: 6120, Stop: 6305, Start Num: 24
Candidate Starts for Yuna_11:
(18, 6084), (Start: 24 @6120 has 293 MA's), (32, 6162), (36, 6198), (40, 6216), (44, 6243),

Gene: Yunkel11_11 Start: 6056, Stop: 6241, Start Num: 24
Candidate Starts for Yunkel11_11:
(Start: 24 @6056 has 293 MA's), (43, 6176),

Gene: Zabiza_11 Start: 7091, Stop: 7276, Start Num: 24
Candidate Starts for Zabiza_11:
(Start: 24 @7091 has 293 MA's), (43, 7211), (49, 7229),

Gene: Zavala_11 Start: 7073, Stop: 7258, Start Num: 24
Candidate Starts for Zavala_11:
(Start: 24 @7073 has 293 MA's), (43, 7193), (49, 7211),

Gene: Zipp_17 Start: 11703, Stop: 11918, Start Num: 21
Candidate Starts for Zipp_17:
(15, 11649), (17, 11670), (Start: 21 @11703 has 79 MA's), (25, 11742), (29, 11769), (30, 11772), (38, 11829), (40, 11841),

Gene: Zitch_18 Start: 11028, Stop: 11231, Start Num: 21
Candidate Starts for Zitch_18:

(10, 10887), (17, 10995), (Start: 21 @11028 has 79 MA's), (25, 11067), (29, 11094), (30, 11097), (38, 11154), (40, 11166),

Gene: ZoMa_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for ZoMa_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),

Gene: ZoeJ_7 Start: 5049, Stop: 5234, Start Num: 24
Candidate Starts for ZoeJ_7:
(Start: 24 @5049 has 293 MA's), (43, 5172), (47, 5184), (51, 5205),

Gene: Zombie_5 Start: 6189, Stop: 6395, Start Num: 24
Candidate Starts for Zombie_5:
(Start: 24 @6189 has 293 MA's), (43, 6315),