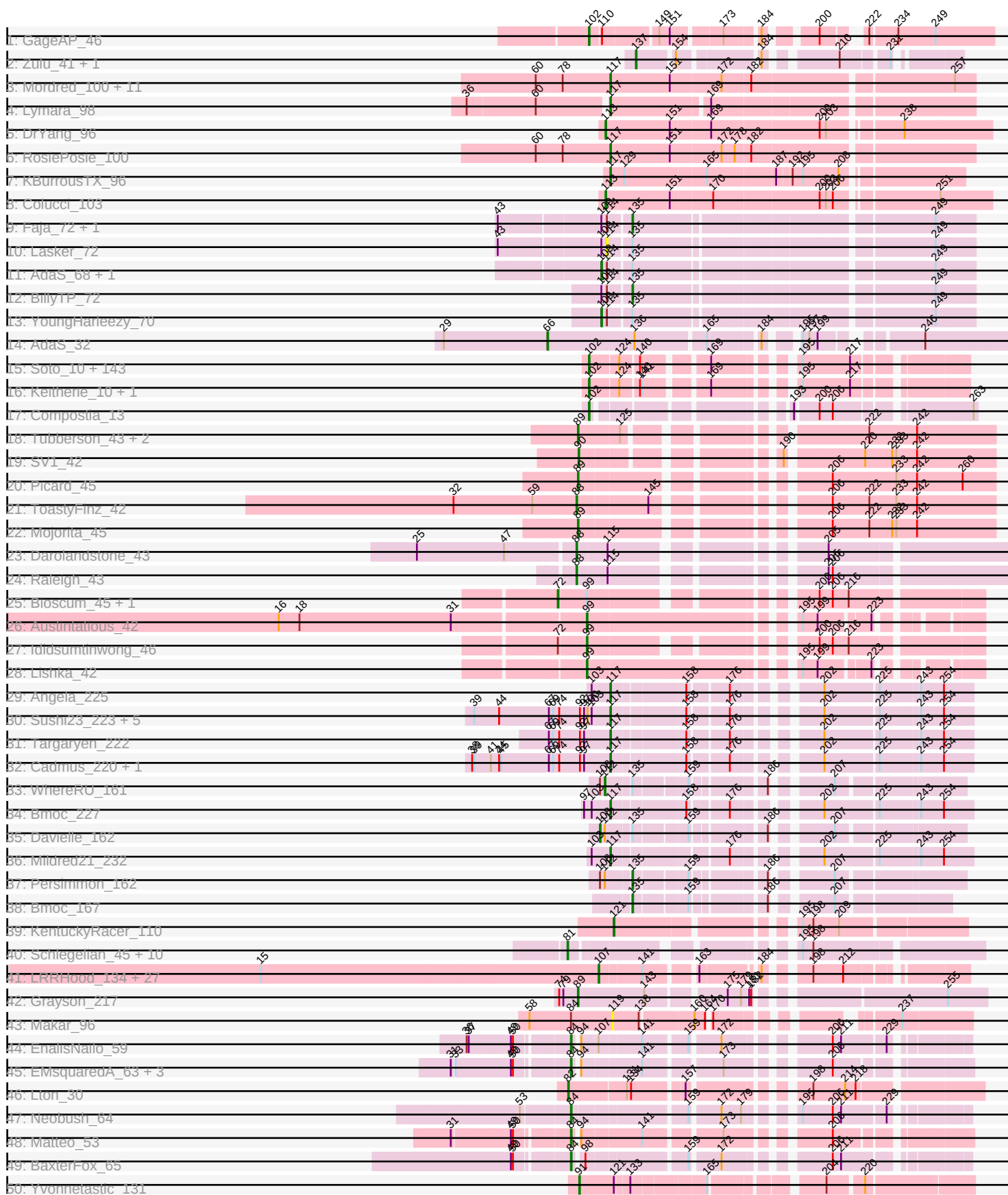
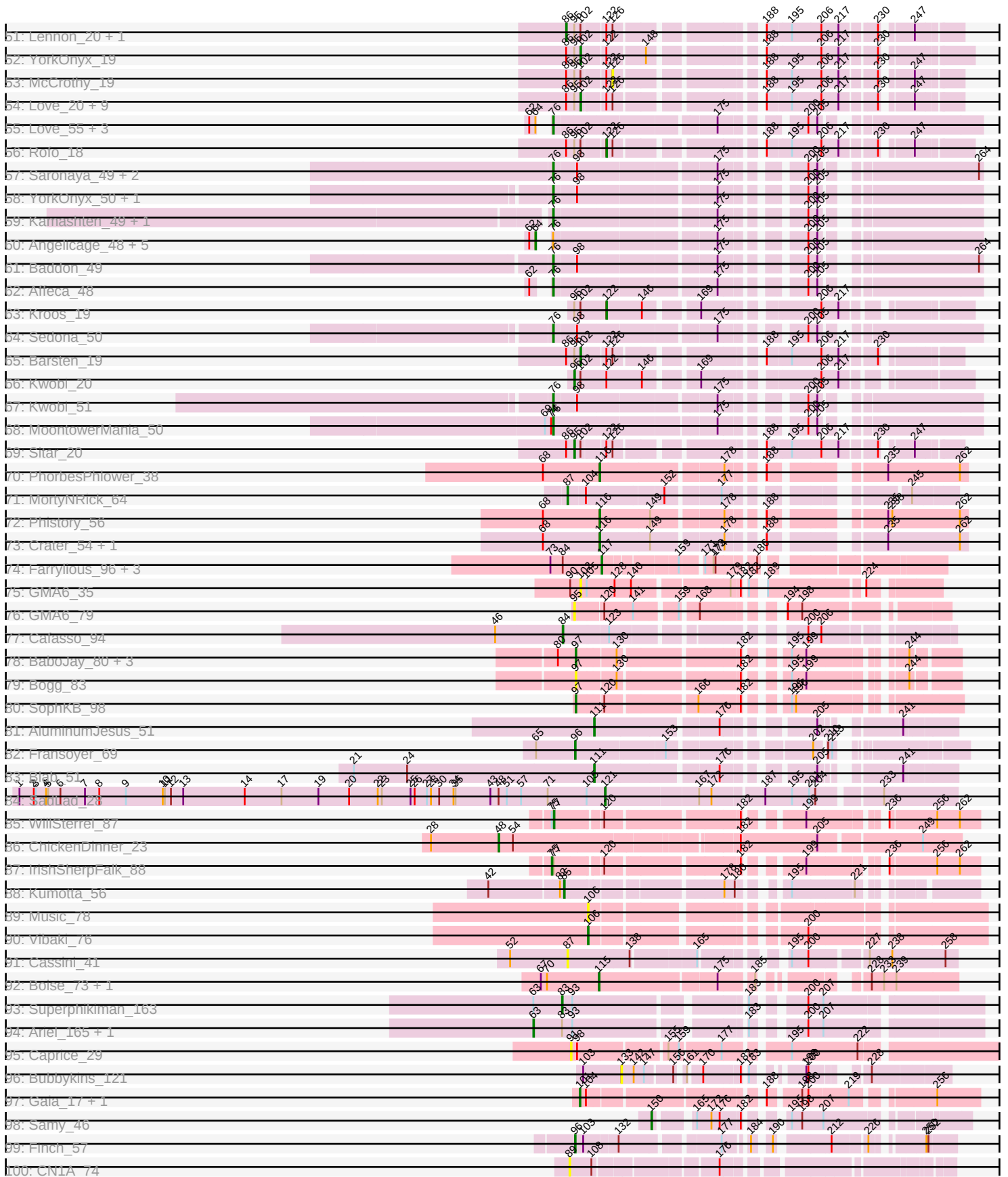


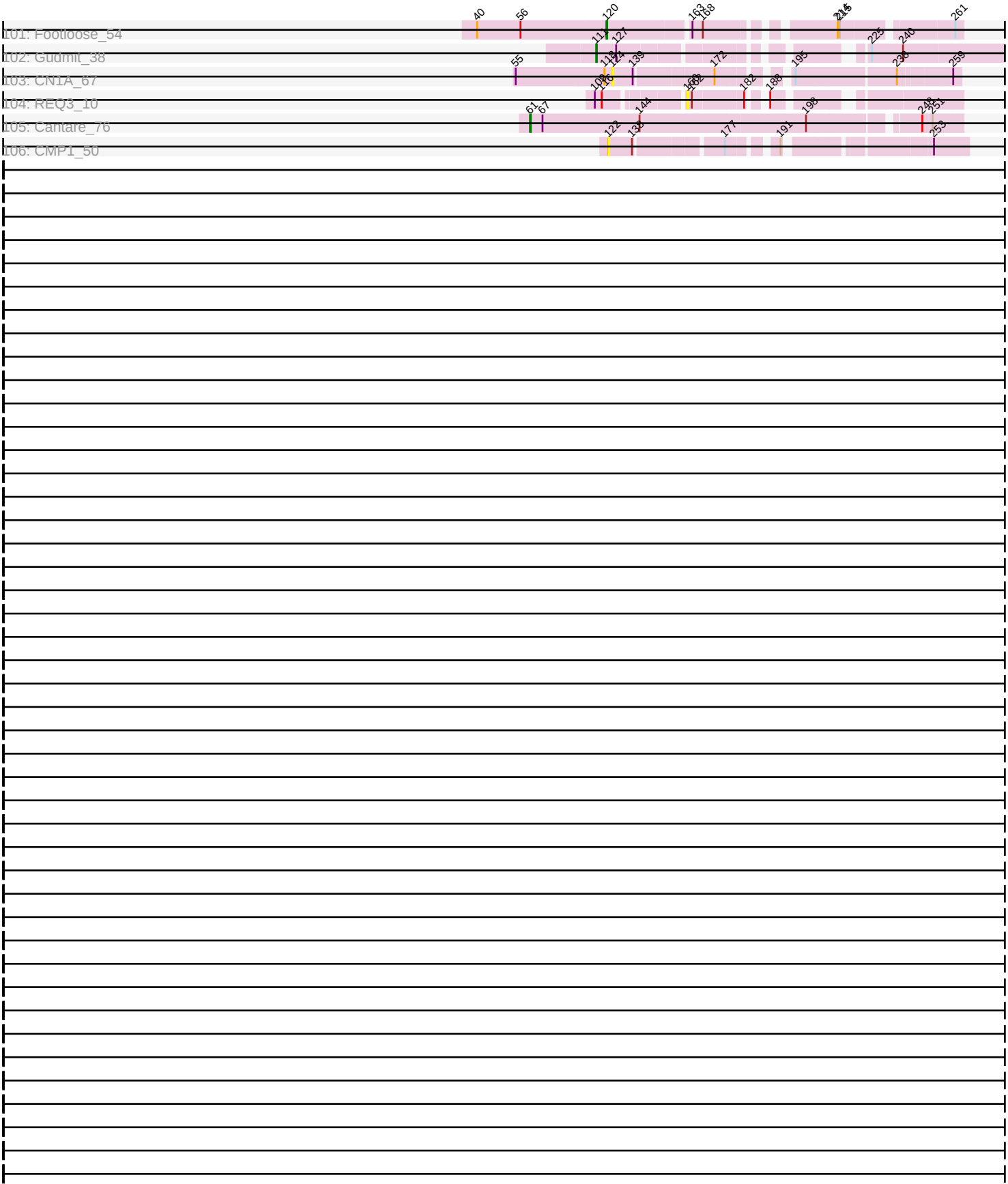
Pham 280004



Pham 280004



Pham 280004



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 280004 Report

This analysis was run 02/07/26 on database version 634.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 280004 has 345 members, 25 are drafts.

Phages represented in each track:

- Track 1 : GageAP_46
- Track 2 : Zulu_41, Tucker_41
- Track 3 : Mordred_100, Tophat_101, HumptyDumpty_100, Chubster_100, PrincessTrina_101, JaNo_99, Linus_100, Chocolat_100, Kabreeze_100, EdgarPoe_100, Chipper1996_1010, Scavito_101
- Track 4 : Lymara_98
- Track 5 : DrYang_96
- Track 6 : RosiePosie_100
- Track 7 : KBurroustX_96
- Track 8 : Colucci_103
- Track 9 : Faja_72, Hestia_63
- Track 10 : Lasker_72
- Track 11 : AdaS_68, BenchScraper_71
- Track 12 : BillyTP_72
- Track 13 : YoungHarleezy_70
- Track 14 : AdaS_32
- Track 15 : Soto_10, HSavage_10, Puhltonio_10, Zaider_11, Gyarad_0010, Fringe_10, Numberten_10, JacAttac_10, Phamished_10, OliverWalter_10, Andre_10, OSmaximus_10, Gwilliam_10, Yoshand_10, Etaye_10, Vivaldi_10, Plmatters_10, Melc17_10, Newman_10, Nacho_0010, CheetO_10, Hartsy_10, CamL_10, Morty_10, Roscoe_11, Weher20_10, Serpentine_0010, ABU_10, KlimbOn_10, BlueHusk_10, Hamish_10, Suffolk_10, Mikota_10, Vista_10, ThreeOh3D2_10, PhatLouie_10, Megatron_10, Serendipity_10, Inchworm_10, Olive_10, Swish_10, Gwennie1_10, Haimas_10, DirtJuice_10, Pherdinand_10, Surely_10, Hetaeria_10, Slatt_10, KLUcky39_10, Kikipoo_10, Valjean_10, Virapocalypse_10, Pipsqueak_10, MiniBoss_10, Prickles_10, Iridoclysis_10, FluffyNinja_10, Gophee_10, AngelCake_10, Horchata_10, Magic8_10, Zonia_10, Boehler_10, JangoPhett_10, DoesntMatter_10, BlackStallion_10, SDcharge11_10, Durga_10, Sigman_10, Riggan_10, UAch1_10, Mesh1_10, Fang_10, TomBombadil_10, Quisquiliae_10, Phipps_10, Craff_10, Waterdiva_10, PhrodoBaggins_105, Podrick_10, FriarPreacher_10, Scoot17C_10, Lasso_10, Samaymay_10, Tooj_10, ProfessorX_10, AltPhacts_10, Orion_10, Lulwa_10, Kailash_10, Emiris_10, Charles1_10, PG1_10, Cobra_10, QueenBeane_10, Omniscient_10, LeeLot_10,

Murdoc_10, IsaacEli_10, ElvisPhasley_10, Pops_10, Chunky_10, Lego3393_10, CampRoach_10, Dingo_10, Oosterbaan_10, Anderson_10, Roliet_10, Harvey_10, Tomlarah_10, Matalotodo_10, GeneCoco_10, Spartan300_10, Chah_10, Sheila_10, Cannibal_10, Inverness_10, Hertubise_10, Zelda_10, EmpTee_10, Badfish_10, Adriana_10, Thora_10, LasagnaCat_10, Frankicide_10, Eremos_10, Basato_11, Katniss_10, Daka_10, Buckeye_10, Colbert_10, Trypo_10, Skippy_10, Usavi_10, Swiphy_10, Phunky_10, Nicole21_10, YouGoGlencoco_10, Eugenia_10, ShiVal_10, KingVeVeVe_10, Kloppinator_10, Nathan_10, PhatCats2014_10

- Track 16 : Keitherie_10, Coletti_10
- Track 17 : Compostia_13
- Track 18 : Tubberson_43, SoJo_43, DaRealMyers_43
- Track 19 : SV1_42
- Track 20 : Picard_45
- Track 21 : ToastyFinz_42
- Track 22 : Mojorita_45
- Track 23 : Darolandstone_43
- Track 24 : Raleigh_43
- Track 25 : Bioscum_45, PapayaSalad_44
- Track 26 : Austintatious_42
- Track 27 : Ididsumtinwong_46
- Track 28 : Lishka_42
- Track 29 : Angela_225
- Track 30 : Sushi23_223, Cursive_225, PacManQ_219, Lululemon_219, Shuckle_221, Larnav_222
- Track 31 : Targaryen_222
- Track 32 : Cadmus_220, Daubenski_216
- Track 33 : WhereRU_161
- Track 34 : Bmoc_227
- Track 35 : Davielle_162
- Track 36 : Mildred21_232
- Track 37 : Persimmon_162
- Track 38 : Bmoc_167
- Track 39 : KentuckyRacer_110
- Track 40 : Schlegelian_45, AxeJC_43, Eklok_44, Ignacio_44, ArizonaGT_45, FrumpyGal_45, Cumberbatch_45, Eastland_44, Piccadilly_44, HFrancette_45, Vondra_43
- Track 41 : LRRHood_134, Jessibeth14_140, Phox_138, MikeLiesIn_142, Teardrop_140, LolaVinca_141, HyRo_132, ChickenPhender_137, Pio_145, Moby_134, CharlieB_138, SVoro_139, Shaqnato_134, Cane17_133, Lukilu_131, Moiqah_133, Bezza_130, Fludd_142, Breeniome_140, Mangeria_141, Bxz1_138, Rabinovish_140, Shelob_143, Burrough_141, DeejaClivia_128, Cali_136, Koguma_138, Shifa_130
- Track 42 : Grayson_217
- Track 43 : Makar_96
- Track 44 : EnalisNailo_59
- Track 45 : EMSquaredA_63, Pollux_66, Floral_64, Marteena_62
- Track 46 : Lton_30
- Track 47 : Neobush_64
- Track 48 : Matteo_53
- Track 49 : BaxterFox_65
- Track 50 : Yvonnetastic_131
- Track 51 : Lennon_20, Vivi2_18
- Track 52 : YorkOnyx_19

- Track 53 : McCrothy_19
- Track 54 : Love_20, Galadriel_20, Bibwit_19, Tangent_16, Charming_16, Fosterous_16, Paries_19, BobBob_16, Keitabear_20, Nordenberg_13
- Track 55 : Love_55, Shivanishola_50, Kewpiedoll_51, Ailee_47
- Track 56 : Rofo_18
- Track 57 : Saronaya_49, JKSyngboy_47, Gustavo_49
- Track 58 : YorkOnyx_50, Bibwit_48
- Track 59 : Kamashten_49, Thing3_49
- Track 60 : Angelicage_48, Sitar_50, Lennon_50, Vivi2_54, Keitabear_50, McCrothy_51
- Track 61 : Baddon_49
- Track 62 : Affeca_48
- Track 63 : Kroos_19
- Track 64 : Sedona_50
- Track 65 : Barsten_19
- Track 66 : Kwobi_20
- Track 67 : Kwobi_51
- Track 68 : MoontowerMania_50
- Track 69 : Sitar_20
- Track 70 : PhorbesPhlower_38
- Track 71 : MortyNRick_64
- Track 72 : Phistory_56
- Track 73 : Crater_54, Apricot_54
- Track 74 : Farrylious_96, ChisanaKitsune_96, Argena_96, MintFritos_94
- Track 75 : GMA6_35
- Track 76 : GMA6_79
- Track 77 : Cafasso_94
- Track 78 : BaboJay_80, Goku_81, Eureka_81, Manda_84
- Track 79 : Bogg_83
- Track 80 : SophKB_98
- Track 81 : AluminumJesus_51
- Track 82 : Fransoyer_69
- Track 83 : Blab_51
- Track 84 : SadLad_28
- Track 85 : WillSterrel_87
- Track 86 : ChickenDinner_23
- Track 87 : IrishSherpFalk_88
- Track 88 : Kumotta_56
- Track 89 : Music_78
- Track 90 : Vibaki_76
- Track 91 : Cassini_41
- Track 92 : Boise_73, RomansRevenge_75
- Track 93 : Superphikiman_163
- Track 94 : Ariel_165, Courthouse_162
- Track 95 : Caprice_29
- Track 96 : Bubbykins_121
- Track 97 : Gaia_17, Nebkiss_18
- Track 98 : Samy_46
- Track 99 : Finch_57
- Track 100 : CN1A_74
- Track 101 : Footloose_54
- Track 102 : Gudmit_38
- Track 103 : CN1A_67

- Track 104 : REQ3_10
- Track 105 : Cantare_76
- Track 106 : CMP1_50

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

The start number called the most often in the published annotations is 102, it was called in 160 of the 320 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_10, Adriana_10, AltPhacts_10, Anderson_10, Andre_10, AngelCake_10, Badfish_10, Barsten_19, Basato_11, Bibwit_19, BlackStallion_10, BlueHusk_10, BobBob_16, Boehler_10, Buckeye_10, CamL_10, CampRoach_10, Cannibal_10, Chah_10, Charles1_10, Charming_16, CheetO_10, Chunky_10, Cobra_10, Colbert_10, Coletti_10, Compostia_13, Craff_10, Daka_10, Dingo_10, DirtJuice_10, DoesntMatter_10, Durga_10, ElvisPhasley_10, Emiris_10, EmpTee_10, Eremos_10, Etaye_10, Eugenia_10, Fang_10, FluffyNinja_10, Fosterous_16, Frankicide_10, FriarPreacher_10, Fringe_10, GMA6_35, GageAP_46, Galadriel_20, GeneCoco_10, Gophee_10, Gwennie1_10, Gwilliam_10, Gyarad_0010, HSavage_10, Haimas_10, Hamish_10, Hartsy_10, Harvey_10, Hertubise_10, Hetaeria_10, Horchata_10, Inchworm_10, Inverness_10, Iridoclysis_10, IsaacEli_10, JacAttac_10, JangoPhett_10, KLucky39_10, Kailash_10, Katniss_10, Keitabear_20, Keitherie_10, Kikipoo_10, KingVeVeVe_10, KlimbOn_10, Kloppinator_10, LasagnaCat_10, Lasso_10, LeeLot_10, Lego3393_10, Love_20, Lulwa_10, Magic8_10, Matalotodo_10, Megatron_10, Melc17_10, Mesh1_10, Mikota_10, MiniBoss_10, Morty_10, Murdoc_10, Nacho_0010, Nathan_10, Newman_10, Nicole21_10, Nordenberg_13, Numberten_10, OSmaximus_10, Olive_10, OliverWalter_10, Omniscient_10, Oosterbaan_10, Orion_10, PG1_10, Paries_19, Phamished_10, PhatCats2014_10, PhatLouie_10, Pherdinand_10, Phipps_10, PhrodoBaggins_105, Phunky_10, Pipsqueak_10, Plmatters_10, Podrick_10, Pops_10, Prickles_10, ProfessorX_10, Puhltionio_10, QueenBeane_10, Quisquiliae_10, Riggan_10, Roliet_10, Roscoe_11, SDcharge11_10, Samaymay_10, Scoot17C_10, Serendipity_10, Serpentine_0010, Sheila_10, ShiVal_10, Sigman_10, Skippy_10, Slatt_10, Soto_10, Spartan300_10, Suffolk_10, Surely_10, Swiphy_10, Swish_10, Tangent_16, Thora_10, ThreeOh3D2_10, TomBombadil_10, Tomlarah_10, Tooj_10, Trypo_10, UAch1_10, Usavi_10, Valjean_10, Virapocalypse_10, Vista_10, Vivaldi_10, Waterdiva_10, Weher20_10, YorkOnyx_19, Yoshand_10, YouGoGlencoco_10, Zaider_11, Zelda_10, Zonia_10,

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

- Kroos_19, Kwobi_20, Lennon_20, McCrothy_19, Rofo_18, Sitar_20, Vivi2_18,

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

- AdaS_32, AdaS_68, Affeca_48, Ailee_47, AluminumJesus_51, Angela_225, Angelicage_48, Apricot_54, Argena_96, Ariel_165, ArizonaGT_45, Austintatious_42, AxeJC_43, BaboJay_80, Baddon_49, BaxterFox_65, BenchScraper_71, Bezza_130, Bibwit_48, BillyTP_72, Bioscum_45, Blab_51, Bmoc_167, Bmoc_227, Bogg_83, Boise_73, Breeniome_140, Bubbykins_121, Burrough_141, Bxz1_138, CMP1_50, CN1A_67, CN1A_74, Cadmus_220, Cafasso_94, Cali_136, Cane17_133, Cantare_76, Caprice_29, Cassini_41, CharlieB_138, ChickenDinner_23,

ChickenPhender_137, Chipper1996_1010, ChisanaKitsune_96, Chocolat_100, Chubster_100, Colucci_103, Courthouse_162, Crater_54, Cumberbatch_45, Cursive_225, DaRealMyers_43, Darolandstone_43, Daubenski_216, Davielle_162, DeejaClivia_128, DrYang_96, EMSquaredA_63, Eastland_44, EdgarPoe_100, Eklok_44, EnalisNailo_59, Eureka_81, Faja_72, Farrylious_96, Finch_57, Floral_64, Fludd_142, Footloose_54, Fransoyer_69, FrumpyGal_45, GMA6_79, Gaia_17, Goku_81, Grayson_217, Gudmit_38, Gustavo_49, HFrancette_45, Hestia_63, HumptyDumpty_100, HyRo_132, Ididsumtinwong_46, Ignacio_44, IrishSherpFalk_88, JKSyngboy_47, JaNo_99, Jessibeth14_140, KBurrousTX_96, Kabreeze_100, Kamashten_49, Keitabear_50, KentuckyRacer_110, Kewpiedoll_51, Koguma_138, Kumotta_56, Kwobi_51, LRRHood_134, Larnav_222, Lasker_72, Lennon_50, Linus_100, Lishka_42, LolaVince_141, Love_55, Lton_30, Lukilu_131, Lululemon_219, Lymara_98, Makar_96, Manda_84, Mangeria_141, Marteen_62, Matteo_53, McCrothy_51, MikeLiesIn_142, Mildred21_232, MintFritos_94, Moby_134, Moiqah_133, Mojarita_45, MoontowerMania_50, Mordred_100, MortyNRick_64, Music_78, Nebkiss_18, Neobush_64, PacManQ_219, PapayaSalad_44, Persimmon_162, Phistory_56, PhorbesPhlower_38, Phox_138, Picard_45, Piccadilly_44, Pio_145, Pollux_66, PrincessTrina_101, REQ3_10, Rabinovich_140, Raleigh_43, RomansRevenge_75, RosiePosie_100, SV1_42, SVoro_139, SadLad_28, Samy_46, Saronaya_49, Scavito_101, Schlegelian_45, Sedona_50, Shaqnato_134, Shelob_143, Shifa_130, Shivanishola_50, Shuckle_221, Sitar_50, SoJo_43, SophKB_98, Superphikiman_163, Sushi23_223, Targaryen_222, Teardrop_140, Thing3_49, ToastyFinz_42, Tophat_101, Tubberson_43, Tucker_41, Vibaki_76, Vivi2_54, Vondra_43, WhereRU_161, WillSterrel_87, YorkOnyx_50, YoungHarleezy_70, YvonneTastic_131, Zulu_41,

Summary by start number:

Start 48:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ChickenDinner_23 (F1),

Start 61:

- Found in 1 of 345 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_76 (singleton),

Start 63:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Ariel_165 (J), Courthouse_162 (J),

Start 64:

- Found in 10 of 345 (2.9%) of genes in pham
- Manual Annotations of this start: 5 of 320
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Angelicage_48 (DE1), Keitabear_50 (DE1), Lennon_50 (DE1), McCrothy_51 (DE1), Sitar_50 (DE1), Vivi2_54 (DE1),

Start 66:

- Found in 1 of 345 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdaS_32 (AY),

Start 72:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Bioscum_45 (BC3), PapayaSalad_44 (BC3),

Start 75:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: IrishSherpFalk_88 (F1),

Start 76:

- Found in 22 of 345 (6.4%) of genes in pham
- Manual Annotations of this start: 16 of 320
- Called 72.7% of time when present
- Phage (with cluster) where this start called: Affeca_48 (DE1), Ailee_47 (DE1), Baddon_49 (DE1), Bibwit_48 (DE1), Gustavo_49 (DE1), JKSyngboy_47 (DE1), Kamashten_49 (DE1), Kewpiedoll_51 (DE1), Kwobi_51 (DE1), Love_55 (DE1), MoontowerMania_50 (DE1), Saronaya_49 (DE1), Sedona_50 (DE1), Shivanishola_50 (DE1), Thing3_49 (DE1), YorkOnyx_50 (DE1),

Start 77:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: WillSterrel_87 (F1),

Start 81:

- Found in 11 of 345 (3.2%) of genes in pham
- Manual Annotations of this start: 11 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArizonaGT_45 (BP), AxeJC_43 (BP), Cumberbatch_45 (BP), Eastland_44 (BP), Eklok_44 (BP), FrumpyGal_45 (BP), HFrancette_45 (BP), Ignacio_44 (BP), Piccadilly_44 (BP), Schlegelian_45 (BP), Vondra_43 (BP),

Start 82:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lton_30 (CZ),

Start 83:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 320

- Called 33.3% of time when present
- Phage (with cluster) where this start called: Superphikiman_163 (J),

Start 84:

- Found in 14 of 345 (4.1%) of genes in pham
- Manual Annotations of this start: 9 of 320
- Called 64.3% of time when present
- Phage (with cluster) where this start called: BaxterFox_65 (CZ3), Cafasso_94 (DZ), EMSquaredA_63 (CY1), EnalisNailo_59 (CY1), Floral_64 (CY1), Marteena_62 (CY1), Matteo_53 (CZ2), Neobush_64 (CZ1), Pollux_66 (CY1),

Start 85:

- Found in 1 of 345 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta_56 (FB),

Start 86:

- Found in 17 of 345 (4.9%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Lennon_20 (DE1), Vivi2_18 (DE1),

Start 87:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cassini_41 (FN), MortyNRick_64 (DN),

Start 88:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darolandstone_43 (BC2), Raleigh_43 (BC2), ToastyFinz_42 (BC1),

Start 89:

- Found in 7 of 345 (2.0%) of genes in pham
- Manual Annotations of this start: 5 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A_74 (singleton), DaRealMyers_43 (BC1), Grayson_217 (CB), Moajorita_45 (BC1), Picard_45 (BC1), SoJo_43 (BC1), Tubberson_43 (BC1),

Start 90:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SV1_42 (BC1),

Start 91:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caprice_29 (S), Yvonnetastic_131 (DD),

Start 95:

- Found in 20 of 345 (5.8%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 15.0% of time when present
- Phage (with cluster) where this start called: GMA6_79 (DQ), Kwobi_20 (DE1), Sitar_20 (DE1),

Start 96:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_57 (singleton), Fransoyer_69 (EG),

Start 97:

- Found in 16 of 345 (4.6%) of genes in pham
- Manual Annotations of this start: 5 of 320
- Called 37.5% of time when present
- Phage (with cluster) where this start called: BaboJay_80 (E), Bogg_83 (E), Eureka_81 (E), Goku_81 (E), Manda_84 (E), SophKB_98 (E),

Start 99:

- Found in 5 of 345 (1.4%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Austintatious_42 (BC3), Ididsumtinwong_46 (BC3), Lishka_42 (BC3),

Start 101:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_17 (X), Nebkiss_18 (X),

Start 102:

- Found in 168 of 345 (48.7%) of genes in pham
- Manual Annotations of this start: 160 of 320
- Called 95.8% of time when present
- Phage (with cluster) where this start called: ABU_10 (B1), Adriana_10 (B1), AltPhacts_10 (B1), Anderson_10 (B1), Andre_10 (B1), AngelCake_10 (B1), Badfish_10 (B1), Barsten_19 (DE1), Basato_11 (B1), Bibwit_19 (DE1), BlackStallion_10 (B1), BlueHusk_10 (B1), BobBob_16 (DE1), Boehler_10 (B1), Buckeye_10 (B1), CamL_10 (B1), CampRoach_10 (B1), Cannibal_10 (B1), Chah_10 (B1), Charles1_10 (B1), Charming_16 (DE1), CheetO_10 (B1), Chunky_10 (B1), Cobra_10 (B1), Colbert_10 (B1), Coletti_10 (B1), Compostia_13 (B3), Craff_10 (B1), Daka_10 (B1), Dingo_10 (B1), DirtJuice_10 (B1), DoesntMatter_10 (B1), Durga_10 (B1), ElvisPhasley_10 (B1), Emiris_10 (B1), EmpTee_10 (B1), Eremos_10 (B1), Etaye_10 (B1), Eugenia_10 (B1), Fang_10 (B1), FluffyNinja_10 (B1), Fosterous_16 (DE1), Frankicide_10 (B1), FriarPreacher_10 (B1), Fringe_10 (B1), GMA6_35 (DQ), GageAP_46 (A1), Galadriel_20 (DE1), GeneCoco_10 (B1), Gophee_10 (B1),

Gwennie1_10 (B1), Gwilliam_10 (B1), Gyarad_0010 (B1), HSavage_10 (B1), Haimas_10 (B1), Hamish_10 (B1), Hartsy_10 (B1), Harvey_10 (B1), Hertubise_10 (B1), Hetaeria_10 (B1), Horchata_10 (B1), Inchworm_10 (B1), Inverness_10 (B1), Iridoclysis_10 (B1), IsaacEli_10 (B1), JacAttac_10 (B1), JangoPhett_10 (B1), KLUcky39_10 (B1), Kailash_10 (B1), Katniss_10 (B1), Keitabear_20 (DE1), Keitherie_10 (B1), Kikipoo_10 (B1), KingVeVeVe_10 (B1), KlimbOn_10 (B1), Kloppinator_10 (B1), LasagnaCat_10 (B1), Lasso_10 (B1), LeeLot_10 (B1), Lego3393_10 (B1), Love_20 (DE1), Lulwa_10 (B1), Magic8_10 (B1), Matalotodo_10 (B1), Megatron_10 (B1), Melc17_10 (B1), Mesh1_10 (B1), Mikota_10 (B1), MiniBoss_10 (B1), Morty_10 (B1), Murdoc_10 (B1), Nacho_0010 (B1), Nathan_10 (B1), Newman_10 (B1), Nicole21_10 (B1), Nordenberg_13 (DE1), Numberben_10 (B1), OSmaximus_10 (B1), Olive_10 (B1), OliverWalter_10 (B1), Omniscient_10 (B1), Oosterbaan_10 (B1), Orion_10 (B1), PG1_10 (B1), Paries_19 (DE1), Phamished_10 (B1), PhatCats2014_10 (B1), PhatLouie_10 (B1), Pherdinand_10 (B1), Phipps_10 (B1), PhrodoBaggins_105 (B1), Phunky_10 (B1), Pipsqueak_10 (B1), Plmatters_10 (B1), Podrick_10 (B1), Pops_10 (B1), Prickles_10 (B1), ProfessorX_10 (B1), Puhltonio_10 (B1), QueenBeane_10 (B1), Quisquilliae_10 (B1), Riggan_10 (B1), Roliet_10 (B1), Roscoe_11 (B1), SDcharge11_10 (B1), Samaymay_10 (B1), Scoot17C_10 (B1), Serendipity_10 (B1), Serpentine_0010 (B1), Sheila_10 (B1), ShiVal_10 (B1), Sigman_10 (B1), Skippy_10 (B1), Slatt_10 (B1), Soto_10 (B1), Spartan300_10 (B1), Suffolk_10 (B1), Surely_10 (B1), Swiphy_10 (B1), Swish_10 (B1), Tangent_16 (DE1), Thora_10 (B1), ThreeOh3D2_10 (B1), TomBombadil_10 (B1), Tomlara_10 (B1), Tooj_10 (B1), Trypo_10 (B1), UAch1_10 (B1), Usavi_10 (B1), Valjean_10 (B1), Virapocalypse_10 (B1), Vista_10 (B1), Vivaldi_10 (B1), Waterdiva_10 (B1), Weher20_10 (B1), YorkOnyx_19 (DE1), Yoshand_10 (B1), YouGoGlencoco_10 (B1), Zaider_11 (B1), Zelda_10 (B1), Zonia_10 (B1),

Start 106:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Music_78 (FL), Vibaki_76 (FL),

Start 107:

- Found in 29 of 345 (8.4%) of genes in pham
- Manual Annotations of this start: 23 of 320
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Bezza_130 (C1), Breeniome_140 (C1), Burrough_141 (C1), Bxz1_138 (C1), Cali_136 (C1), Cane17_133 (C1), CharlieB_138 (C1), ChickenPhender_137 (C1), DeejaClivia_128 (C1), Fludd_142 (C1), HyRo_132 (C1), Jessibeth14_140 (C1), Koguma_138 (C1), LRRHood_134 (C1), LolaVince_141 (C1), Lukilu_131 (C1), Mangieria_141 (C1), MikeLiesIn_142 (C1), Moby_134 (C1), Moiqah_133 (C1), Phox_138 (C1), Pio_145 (C1), Rabinovich_140 (C1), SVoro_139 (C1), Shaqnato_134 (C1), Shelob_143 (C1), Shifa_130 (C1), Teardrop_140 (C1),

Start 108:

- Found in 4 of 345 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Davielle_162 (BE1),

Start 109:

- Found in 8 of 345 (2.3%) of genes in pham

- Manual Annotations of this start: 3 of 320
- Called 37.5% of time when present
- Phage (with cluster) where this start called: AdaS_68 (AY), BenchScraper_71 (AY), YoungHarleezy_70 (AY),

Start 111:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AluminumJesus_51 (EG), Blab_51 (EG), Gudmit_38 (singleton),

Start 112:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 33.3% of time when present
- Phage (with cluster) where this start called: WhereRU_161 (BE1),

Start 113:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colucci_103 (AR), DrYang_96 (AR),

Start 114:

- Found in 7 of 345 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Lasker_72 (AY),

Start 115:

- Found in 4 of 345 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Boise_73 (FT), RomansRevenge_75 (FT),

Start 116:

- Found in 5 of 345 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 320
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Apricot_54 (DN3), Crater_54 (DN3), Phistory_56 (DN1), PhorbesPhlower_38 (DH),

Start 117:

- Found in 31 of 345 (9.0%) of genes in pham
- Manual Annotations of this start: 28 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angela_225 (BE1), Argena_96 (DQ), Bmoc_227 (BE1), Cadmus_220 (BE1), Chipper1996_1010 (AR), ChisanaKitsune_96 (DQ), Chocolat_100 (AR), Chubster_100 (AR), Cursive_225 (BE1), Daubenski_216 (BE1), EdgarPoe_100 (AR), Farrylous_96 (DQ), HumptyDumpty_100 (AR), JaNo_99 (AR), KBurroustX_96 (AR), Kabreeze_100 (AR), Larnav_222 (BE1), Linus_100 (AR),

Lululemon_219 (BE1), Lymara_98 (AR), Mildred21_232 (BE1), MintFritos_94 (DQ), Mordred_100 (AR), PacManQ_219 (BE1), PrincessTrina_101 (AR), RosiePosie_100 (AR), Scavito_101 (AR), Shuckle_221 (BE1), Sushi23_223 (BE1), Targaryen_222 (BE1), Tophat_101 (AR),

Start 119:

- Found in 1 of 345 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makar_96 (CP),

Start 120:

- Found in 5 of 345 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Footloose_54 (singleton),

Start 121:

- Found in 3 of 345 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 66.7% of time when present
- Phage (with cluster) where this start called: KentuckyRacer_110 (BE2), SadLad_28 (EG),

Start 122:

- Found in 20 of 345 (5.8%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 15.0% of time when present
- Phage (with cluster) where this start called: CMP1_50 (singleton), Kroos_19 (DE1), Rofo_18 (DE1),

Start 124:

- Found in 147 of 345 (42.6%) of genes in pham
- No Manual Annotations of this start.
- Called 0.7% of time when present
- Phage (with cluster) where this start called: CN1A_67 (singleton),

Start 126:

- Found in 16 of 345 (4.6%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: McCrothy_19 (DE1),

Start 133:

- Found in 2 of 345 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bubbykins_121 (UNK),

Start 135:

- Found in 11 of 345 (3.2%) of genes in pham
- Manual Annotations of this start: 5 of 320
- Called 45.5% of time when present

- Phage (with cluster) where this start called: BillyTP_72 (AY), Bmoc_167 (BE1), Faja_72 (AY), Hestia_63 (AY), Persimmon_162 (BE1),

Start 137:

- Found in 2 of 345 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tucker_41 (A6), Zulu_41 (A6),

Start 150:

- Found in 1 of 345 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Samy_46 (singleton),

Start 160:

- Found in 2 of 345 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: REQ3_10 (singleton),

Summary by clusters:

There are 40 clusters represented in this pham: DN, singleton, FT, DH, CZ2, CZ3, DD, CZ1, FB, BP, FL, FN, DQ, CP, A1, DN1, DN3, A6, C1, CY1, E, CB, EG, J, CZ, S, AR, AY, X, UNK, F1, DE1, B1, B3, BE2, DZ, BE1, BC1, BC2, BC3,

Info for manual annotations of cluster A1:

- Start number 102 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A6:

- Start number 137 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster AR:

- Start number 113 was manually annotated 2 times for cluster AR.
- Start number 117 was manually annotated 15 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 66 was manually annotated 1 time for cluster AY.
- Start number 109 was manually annotated 3 times for cluster AY.
- Start number 135 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster B1:

- Start number 102 was manually annotated 146 times for cluster B1.

Info for manual annotations of cluster B3:

- Start number 102 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster BC1:

- Start number 88 was manually annotated 1 time for cluster BC1.
- Start number 89 was manually annotated 4 times for cluster BC1.
- Start number 90 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 88 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 72 was manually annotated 2 times for cluster BC3.
- Start number 99 was manually annotated 3 times for cluster BC3.

Info for manual annotations of cluster BE1:

- Start number 108 was manually annotated 1 time for cluster BE1.
- Start number 112 was manually annotated 1 time for cluster BE1.
- Start number 117 was manually annotated 12 times for cluster BE1.
- Start number 135 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 121 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BP:

- Start number 81 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster C1:

- Start number 107 was manually annotated 23 times for cluster C1.

Info for manual annotations of cluster CB:

- Start number 89 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CY1:

- Start number 84 was manually annotated 5 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 82 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 84 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 84 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 84 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster DD:

- Start number 91 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DE1:

- Start number 64 was manually annotated 5 times for cluster DE1.
- Start number 76 was manually annotated 16 times for cluster DE1.
- Start number 86 was manually annotated 2 times for cluster DE1.
- Start number 95 was manually annotated 2 times for cluster DE1.
- Start number 102 was manually annotated 12 times for cluster DE1.
- Start number 122 was manually annotated 2 times for cluster DE1.

Info for manual annotations of cluster DH:

- Start number 116 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 87 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 116 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 116 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DQ:

- Start number 117 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DZ:

- Start number 84 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster E:

- Start number 97 was manually annotated 5 times for cluster E.

Info for manual annotations of cluster EG:

- Start number 96 was manually annotated 1 time for cluster EG.
- Start number 111 was manually annotated 2 times for cluster EG.
- Start number 121 was manually annotated 1 time for cluster EG.

Info for manual annotations of cluster F1:

- Start number 48 was manually annotated 1 time for cluster F1.
- Start number 75 was manually annotated 1 time for cluster F1.
- Start number 77 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster FB:

- Start number 85 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FL:

- Start number 106 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FT:

- Start number 115 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster J:

- Start number 63 was manually annotated 2 times for cluster J.
- Start number 83 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster X:

- Start number 101 was manually annotated 2 times for cluster X.

Gene Information:

Gene: ABU_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for ABU_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: AdaS_68 Start: 35660, Stop: 36148, Start Num: 109

Candidate Starts for AdaS_68:

(Start: 109 @35660 has 3 MA's), (114, 35666), (Start: 135 @35696 has 5 MA's), (249, 36092),

Gene: AdaS_32 Start: 23341, Stop: 23913, Start Num: 66

Candidate Starts for AdaS_32:

(29, 23191), (Start: 66 @23341 has 1 MA's), (136, 23467), (165, 23563), (184, 23626), (195, 23656), (197, 23665), (199, 23677), (246, 23788),

Gene: Adriana_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Adriana_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Affeca_48 Start: 42397, Stop: 42915, Start Num: 76

Candidate Starts for Affeca_48:

(62, 42385), (Start: 76 @42397 has 16 MA's), (175, 42613), (200, 42703), (205, 42715),

Gene: Ailee_47 Start: 42002, Stop: 42520, Start Num: 76

Candidate Starts for Ailee_47:

(62, 41990), (Start: 64 @41999 has 5 MA's), (Start: 76 @42002 has 16 MA's), (175, 42218), (200, 42308), (205, 42320),

Gene: AltPhacts_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for AltPhacts_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: AluminumJesus_51 Start: 40979, Stop: 40554, Start Num: 111

Candidate Starts for AluminumJesus_51:

(Start: 111 @40979 has 3 MA's), (176, 40811), (205, 40709), (241, 40625),

Gene: Anderson_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Anderson_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Andre_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Andre_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: AngelCake_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for AngelCake_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Angela_225 Start: 112366, Stop: 112806, Start Num: 117

Candidate Starts for Angela_225:

(103, 112339), (Start: 117 @112366 has 28 MA's), (158, 112462), (176, 112513), (202, 112606), (225, 112678), (243, 112732), (254, 112765),

Gene: Angelicage_48 Start: 42812, Stop: 43333, Start Num: 64

Candidate Starts for Angelicage_48:

(62, 42803), (Start: 64 @42812 has 5 MA's), (Start: 76 @42815 has 16 MA's), (175, 43031), (200, 43121), (205, 43133),

Gene: Apricot_54 Start: 35119, Stop: 35568, Start Num: 116

Candidate Starts for Apricot_54:

(68, 35038), (Start: 116 @35119 has 4 MA's), (149, 35191), (178, 35287), (188, 35323), (235, 35452), (262, 35557),

Gene: Argena_96 Start: 72813, Stop: 73226, Start Num: 117

Candidate Starts for Argena_96:

(73, 72738), (Start: 84 @72756 has 9 MA's), (Start: 117 @72813 has 28 MA's), (159, 72909), (171, 72936), (173, 72948), (174, 72951), (186, 72999),

Gene: Ariel_165 Start: 84168, Stop: 84737, Start Num: 63

Candidate Starts for Ariel_165:

(Start: 63 @84168 has 2 MA's), (Start: 83 @84210 has 1 MA's), (93, 84225), (183, 84447), (200, 84504), (207, 84525),

Gene: ArizonaGT_45 Start: 30201, Stop: 30692, Start Num: 81

Candidate Starts for ArizonaGT_45:

(Start: 81 @30201 has 11 MA's), (195, 30453), (198, 30468),

Gene: Austintatious_42 Start: 27716, Stop: 28177, Start Num: 99

Candidate Starts for Austintatious_42:

(16, 27290), (18, 27320), (31, 27539), (Start: 99 @27716 has 3 MA's), (195, 27980), (199, 28001), (223, 28064),

Gene: AxeJC_43 Start: 29903, Stop: 30394, Start Num: 81

Candidate Starts for AxeJC_43:

(Start: 81 @29903 has 11 MA's), (195, 30155), (198, 30170),

Gene: BaboJay_80 Start: 51126, Stop: 51572, Start Num: 97

Candidate Starts for BaboJay_80:

(80, 51102), (Start: 97 @51126 has 5 MA's), (130, 51180), (182, 51339), (195, 51378), (199, 51399), (244, 51510),

Gene: Baddon_49 Start: 43084, Stop: 43602, Start Num: 76

Candidate Starts for Baddon_49:

(Start: 76 @43084 has 16 MA's), (98, 43114), (175, 43300), (200, 43390), (205, 43402), (264, 43597),

Gene: Badfish_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Badfish_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Barsten_19 Start: 14612, Stop: 15058, Start Num: 102

Candidate Starts for Barsten_19:

(Start: 86 @14591 has 2 MA's), (Start: 95 @14603 has 2 MA's), (Start: 102 @14612 has 160 MA's), (Start: 122 @14642 has 2 MA's), (126, 14651), (188, 14822), (195, 14855), (206, 14897), (217, 14918), (230, 14963),

Gene: Basato_11 Start: 9177, Stop: 9611, Start Num: 102

Candidate Starts for Basato_11:

(Start: 102 @9177 has 160 MA's), (124, 9216), (140, 9240), (169, 9321), (195, 9411), (217, 9474),

Gene: BaxterFox_65 Start: 44276, Stop: 44731, Start Num: 84

Candidate Starts for BaxterFox_65:

(49, 44204), (50, 44207), (Start: 84 @44276 has 9 MA's), (98, 44288), (159, 44417), (172, 44453), (206, 44570), (211, 44579),

Gene: BenchScraper_71 Start: 37047, Stop: 37535, Start Num: 109

Candidate Starts for BenchScraper_71:

(Start: 109 @37047 has 3 MA's), (114, 37053), (Start: 135 @37083 has 5 MA's), (249, 37479),

Gene: Bezza_130 Start: 82627, Stop: 83043, Start Num: 107

Candidate Starts for Bezza_130:

(15, 82150), (Start: 107 @82627 has 23 MA's), (141, 82684), (163, 82747), (184, 82816), (198, 82861), (212, 82900),

Gene: Bibwit_19 Start: 14856, Stop: 15302, Start Num: 102

Candidate Starts for Bibwit_19:

(Start: 86 @14835 has 2 MA's), (Start: 95 @14847 has 2 MA's), (Start: 102 @14856 has 160 MA's), (Start: 122 @14886 has 2 MA's), (126, 14895), (188, 15066), (195, 15099), (206, 15141), (217, 15162), (230, 15207), (247, 15243),

Gene: Bibwit_48 Start: 41643, Stop: 42161, Start Num: 76

Candidate Starts for Bibwit_48:

(Start: 76 @41643 has 16 MA's), (98, 41673), (175, 41859), (200, 41949), (205, 41961),

Gene: BillyTP_72 Start: 38938, Stop: 39390, Start Num: 135

Candidate Starts for BillyTP_72:

(Start: 109 @38902 has 3 MA's), (114, 38908), (Start: 135 @38938 has 5 MA's), (249, 39334),

Gene: Bioscum_45 Start: 29978, Stop: 30484, Start Num: 72

Candidate Starts for Bioscum_45:

(Start: 72 @29978 has 2 MA's), (Start: 99 @30014 has 3 MA's), (200, 30272), (206, 30290), (216, 30311),

Gene: Blab_51 Start: 40826, Stop: 40401, Start Num: 111

Candidate Starts for Blab_51:

(21, 41177), (24, 41099), (Start: 111 @40826 has 3 MA's), (176, 40658), (205, 40556), (241, 40472),

Gene: BlackStallion_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for BlackStallion_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: BlueHusk_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for BlueHusk_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Bmoc_227 Start: 112807, Stop: 113247, Start Num: 117

Candidate Starts for Bmoc_227:

(Start: 97 @112771 has 5 MA's), (103, 112780), (Start: 117 @112807 has 28 MA's), (158, 112903), (176, 112954), (202, 113047), (225, 113119), (243, 113173), (254, 113206),

Gene: Bmoc_167 Start: 91666, Stop: 92031, Start Num: 135

Candidate Starts for Bmoc_167:

(Start: 135 @91666 has 5 MA's), (159, 91735), (186, 91822), (207, 91888),

Gene: BobBob_16 Start: 13466, Stop: 13912, Start Num: 102

Candidate Starts for BobBob_16:

(Start: 86 @13445 has 2 MA's), (Start: 95 @13457 has 2 MA's), (Start: 102 @13466 has 160 MA's),
(Start: 122 @13496 has 2 MA's), (126, 13505), (188, 13676), (195, 13709), (206, 13751), (217, 13772),
(230, 13817), (247, 13853),

Gene: Boehler_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Boehler_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Bogg_83 Start: 50869, Stop: 51315, Start Num: 97

Candidate Starts for Bogg_83:

(Start: 97 @50869 has 5 MA's), (130, 50923), (182, 51082), (195, 51121), (199, 51142), (244, 51253),

Gene: Boise_73 Start: 50699, Stop: 50262, Start Num: 115

Candidate Starts for Boise_73:

(67, 50783), (70, 50774), (Start: 115 @50699 has 1 MA's), (175, 50534), (185, 50489), (228, 50387),
(233, 50369), (239, 50351),

Gene: Breeniome_140 Start: 81159, Stop: 81575, Start Num: 107

Candidate Starts for Breeniome_140:

(15, 80682), (Start: 107 @81159 has 23 MA's), (141, 81216), (163, 81279), (184, 81348), (198, 81393),
(212, 81432),

Gene: Bubbykins_121 Start: 68602, Stop: 68958, Start Num: 133

Candidate Starts for Bubbykins_121:

(103, 68548), (133, 68602), (142, 68620), (147, 68635), (156, 68671), (161, 68680), (170, 68695),
(182, 68743), (183, 68746), (199, 68794), (200, 68797), (228, 68851),

Gene: Buckeye_10 Start: 8945, Stop: 9379, Start Num: 102

Candidate Starts for Buckeye_10:

(Start: 102 @8945 has 160 MA's), (124, 8984), (140, 9008), (169, 9089), (195, 9179), (217, 9242),

Gene: Burrough_141 Start: 83310, Stop: 83726, Start Num: 107

Candidate Starts for Burrough_141:

(15, 82833), (Start: 107 @83310 has 23 MA's), (141, 83367), (163, 83430), (184, 83499), (198, 83544),
(212, 83583),

Gene: Bxz1_138 Start: 84513, Stop: 84929, Start Num: 107

Candidate Starts for Bxz1_138:

(15, 84036), (Start: 107 @84513 has 23 MA's), (141, 84570), (163, 84633), (184, 84702), (198, 84747),
(212, 84786),

Gene: CMP1_50 Start: 47245, Stop: 46814, Start Num: 122

Candidate Starts for CMP1_50:

(Start: 122 @47245 has 2 MA's), (138, 47212), (177, 47098), (191, 47044), (253, 46864),

Gene: CN1A_74 Start: 54320, Stop: 53856, Start Num: 89

Candidate Starts for CN1A_74:

(Start: 89 @54320 has 5 MA's), (Start: 108 @54290 has 1 MA's), (176, 54131),

Gene: CN1A_67 Start: 52198, Stop: 51770, Start Num: 124

Candidate Starts for CN1A_67:

(55, 52336), (118, 52210), (124, 52198), (139, 52174), (172, 52066), (195, 51991), (238, 51853), (259, 51781),

Gene: Cadmus_220 Start: 113488, Stop: 113928, Start Num: 117

Candidate Starts for Cadmus_220:

(38, 113290), (39, 113293), (41, 113317), (44, 113329), (45, 113332), (67, 113401), (69, 113407), (74, 113416), (92, 113446), (Start: 97 @113452 has 5 MA's), (Start: 117 @113488 has 28 MA's), (158, 113584), (176, 113635), (202, 113728), (225, 113800), (243, 113854), (254, 113887),

Gene: Cafasso_94 Start: 55360, Stop: 55818, Start Num: 84

Candidate Starts for Cafasso_94:

(46, 55264), (Start: 84 @55360 has 9 MA's), (123, 55423), (200, 55645), (206, 55663),

Gene: Cali_136 Start: 83312, Stop: 83728, Start Num: 107

Candidate Starts for Cali_136:

(15, 82835), (Start: 107 @83312 has 23 MA's), (141, 83369), (163, 83432), (184, 83501), (198, 83546), (212, 83585),

Gene: CamL_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for CamL_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: CampRoach_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for CampRoach_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Cane17_133 Start: 84174, Stop: 84590, Start Num: 107

Candidate Starts for Cane17_133:

(15, 83697), (Start: 107 @84174 has 23 MA's), (141, 84231), (163, 84294), (184, 84363), (198, 84408), (212, 84447),

Gene: Cannibal_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Cannibal_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Cantare_76 Start: 62423, Stop: 63022, Start Num: 61

Candidate Starts for Cantare_76:

(Start: 61 @62423 has 1 MA's), (67, 62441), (144, 62582), (198, 62819), (248, 62963), (251, 62978),

Gene: Caprice_29 Start: 9273, Stop: 9845, Start Num: 91

Candidate Starts for Caprice_29:

(Start: 91 @9273 has 1 MA's), (98, 9282), (155, 9402), (159, 9417), (177, 9474), (195, 9552), (222, 9645),

Gene: Cassini_41 Start: 28053, Stop: 28541, Start Num: 87

Candidate Starts for Cassini_41:

(52, 27969), (Start: 87 @28053 has 1 MA's), (138, 28143), (165, 28230), (195, 28320), (200, 28344), (227, 28416), (238, 28449), (258, 28524),

Gene: Chah_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Chah_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Charles1_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Charles1_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: CharlieB_138 Start: 82195, Stop: 82611, Start Num: 107

Candidate Starts for CharlieB_138:

(15, 81718), (Start: 107 @82195 has 23 MA's), (141, 82252), (163, 82315), (184, 82384), (198, 82429), (212, 82468),

Gene: Charming_16 Start: 13468, Stop: 13914, Start Num: 102

Candidate Starts for Charming_16:

(Start: 86 @13447 has 2 MA's), (Start: 95 @13459 has 2 MA's), (Start: 102 @13468 has 160 MA's), (Start: 122 @13498 has 2 MA's), (126, 13507), (188, 13678), (195, 13711), (206, 13753), (217, 13774), (230, 13819), (247, 13855),

Gene: CheetO_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for CheetO_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: ChickenDinner_23 Start: 23332, Stop: 23961, Start Num: 48

Candidate Starts for ChickenDinner_23:

(28, 23233), (Start: 48 @23332 has 1 MA's), (54, 23353), (182, 23656), (205, 23767), (249, 23905),

Gene: ChickenPhender_137 Start: 81501, Stop: 81917, Start Num: 107

Candidate Starts for ChickenPhender_137:

(15, 81024), (Start: 107 @81501 has 23 MA's), (141, 81558), (163, 81621), (184, 81690), (198, 81735), (212, 81774),

Gene: Chipper1996_1010 Start: 63867, Stop: 64361, Start Num: 117

Candidate Starts for Chipper1996_1010:

(60, 63759), (78, 63798), (Start: 117 @63867 has 28 MA's), (151, 63951), (172, 64023), (182, 64062), (257, 64332),

Gene: ChisanaKitsune_96 Start: 72440, Stop: 72853, Start Num: 117

Candidate Starts for ChisanaKitsune_96:

(73, 72365), (Start: 84 @72383 has 9 MA's), (Start: 117 @72440 has 28 MA's), (159, 72536), (171, 72563), (173, 72575), (174, 72578), (186, 72626),

Gene: Chocolat_100 Start: 63574, Stop: 64068, Start Num: 117

Candidate Starts for Chocolat_100:

(60, 63466), (78, 63505), (Start: 117 @63574 has 28 MA's), (151, 63658), (172, 63730), (182, 63769), (257, 64039),

Gene: Chubster_100 Start: 63814, Stop: 64308, Start Num: 117

Candidate Starts for Chubster_100:

(60, 63706), (78, 63745), (Start: 117 @63814 has 28 MA's), (151, 63898), (172, 63970), (182, 64009), (257, 64279),

Gene: Chunky_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Chunky_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Cobra_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Cobra_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Colbert_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Colbert_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Coletti_10 Start: 8958, Stop: 9392, Start Num: 102

Candidate Starts for Coletti_10:

(Start: 102 @8958 has 160 MA's), (124, 8997), (140, 9021), (141, 9024), (169, 9102), (195, 9192), (217, 9255),

Gene: Colucci_103 Start: 64172, Stop: 64684, Start Num: 113

Candidate Starts for Colucci_103:

(Start: 113 @64172 has 2 MA's), (151, 64262), (170, 64316), (200, 64463), (203, 64472), (206, 64481), (251, 64610),

Gene: Compostia_13 Start: 10667, Stop: 11107, Start Num: 102

Candidate Starts for Compostia_13:

(Start: 102 @10667 has 160 MA's), (193, 10889), (200, 10919), (206, 10937), (263, 11102),

Gene: Courthouse_162 Start: 84612, Stop: 85181, Start Num: 63

Candidate Starts for Courthouse_162:

(Start: 63 @84612 has 2 MA's), (Start: 83 @84654 has 1 MA's), (93, 84669), (183, 84891), (200, 84948), (207, 84969),

Gene: Craff_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Craff_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Crater_54 Start: 35514, Stop: 35963, Start Num: 116

Candidate Starts for Crater_54:

(68, 35433), (Start: 116 @35514 has 4 MA's), (149, 35586), (178, 35682), (188, 35718), (235, 35847), (262, 35952),

Gene: Cumberbatch_45 Start: 30201, Stop: 30692, Start Num: 81

Candidate Starts for Cumberbatch_45:

(Start: 81 @30201 has 11 MA's), (195, 30453), (198, 30468),

Gene: Cursive_225 Start: 113007, Stop: 113447, Start Num: 117

Candidate Starts for Cursive_225:

(39, 112812), (44, 112848), (67, 112920), (69, 112926), (74, 112935), (92, 112965), (Start: 97 @112971 has 5 MA's), (100, 112974), (103, 112980), (Start: 117 @113007 has 28 MA's), (158, 113103), (176, 113154), (202, 113247), (225, 113319), (243, 113373), (254, 113406),

Gene: DaRealMyers_43 Start: 31471, Stop: 31983, Start Num: 89

Candidate Starts for DaRealMyers_43:

(Start: 89 @31471 has 5 MA's), (125, 31528), (222, 31804), (242, 31873),

Gene: Daka_10 Start: 8946, Stop: 9380, Start Num: 102

Candidate Starts for Daka_10:

(Start: 102 @8946 has 160 MA's), (124, 8985), (140, 9009), (169, 9090), (195, 9180), (217, 9243),

Gene: Darolandstone_43 Start: 33080, Stop: 33595, Start Num: 88

Candidate Starts for Darolandstone_43:

(25, 32861), (47, 32987), (Start: 88 @33080 has 3 MA's), (Start: 115 @33119 has 1 MA's), (205, 33359),

Gene: Daubenski_216 Start: 113389, Stop: 113829, Start Num: 117

Candidate Starts for Daubenski_216:

(38, 113191), (39, 113194), (41, 113218), (44, 113230), (45, 113233), (67, 113302), (69, 113308), (74, 113317), (92, 113347), (Start: 97 @113353 has 5 MA's), (Start: 117 @113389 has 28 MA's), (158, 113485), (176, 113536), (202, 113629), (225, 113701), (243, 113755), (254, 113788),

Gene: Davielle_162 Start: 91589, Stop: 92011, Start Num: 108

Candidate Starts for Davielle_162:

(Start: 108 @91589 has 1 MA's), (Start: 112 @91595 has 1 MA's), (Start: 135 @91625 has 5 MA's), (159, 91694), (186, 91781), (207, 91847),

Gene: DeejaClivia_128 Start: 80469, Stop: 80885, Start Num: 107

Candidate Starts for DeejaClivia_128:

(15, 79992), (Start: 107 @80469 has 23 MA's), (141, 80526), (163, 80589), (184, 80658), (198, 80703), (212, 80742),

Gene: Dingo_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Dingo_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: DirtJuice_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for DirtJuice_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: DoesntMatter_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for DoesntMatter_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: DrYang_96 Start: 63051, Stop: 63563, Start Num: 113

Candidate Starts for DrYang_96:

(Start: 113 @63051 has 2 MA's), (151, 63141), (169, 63192), (200, 63342), (203, 63351), (238, 63438),

Gene: Durga_10 Start: 8957, Stop: 9391, Start Num: 102

Candidate Starts for Durga_10:

(Start: 102 @8957 has 160 MA's), (124, 8996), (140, 9020), (169, 9101), (195, 9191), (217, 9254),

Gene: EMSquaredA_63 Start: 42816, Stop: 43277, Start Num: 84

Candidate Starts for EMSquaredA_63:

(31, 42666), (33, 42669), (49, 42744), (50, 42747), (Start: 84 @42816 has 9 MA's), (94, 42822), (141, 42903), (173, 42999), (206, 43116),

Gene: Eastland_44 Start: 30161, Stop: 30652, Start Num: 81

Candidate Starts for Eastland_44:

(Start: 81 @30161 has 11 MA's), (195, 30413), (198, 30428),

Gene: EdgarPoe_100 Start: 63731, Stop: 64225, Start Num: 117

Candidate Starts for EdgarPoe_100:

(60, 63623), (78, 63662), (Start: 117 @63731 has 28 MA's), (151, 63815), (172, 63887), (182, 63926), (257, 64196),

Gene: Eklok_44 Start: 29960, Stop: 30451, Start Num: 81

Candidate Starts for Eklok_44:

(Start: 81 @29960 has 11 MA's), (195, 30212), (198, 30227),

Gene: ElvisPhasley_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for ElvisPhasley_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Emiris_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Emiris_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: EmpTee_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for EmpTee_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: EnalisNailo_59 Start: 42622, Stop: 43077, Start Num: 84

Candidate Starts for EnalisNailo_59:

(36, 42490), (37, 42493), (49, 42550), (50, 42553), (Start: 84 @42622 has 9 MA's), (94, 42628), (Start: 107 @42649 has 23 MA's), (141, 42706), (159, 42763), (172, 42799), (206, 42916), (211, 42925), (229, 42985),

Gene: Eremos_10 Start: 8937, Stop: 9371, Start Num: 102

Candidate Starts for Eremos_10:

(Start: 102 @8937 has 160 MA's), (124, 8976), (140, 9000), (169, 9081), (195, 9171), (217, 9234),

Gene: Etaye_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Etaye_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Eugenia_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Eugenia_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Eureka_81 Start: 51417, Stop: 51863, Start Num: 97

Candidate Starts for Eureka_81:

(80, 51393), (Start: 97 @51417 has 5 MA's), (130, 51471), (182, 51630), (195, 51669), (199, 51690), (244, 51801),

Gene: Faja_72 Start: 38688, Stop: 39140, Start Num: 135

Candidate Starts for Faja_72:

(43, 38511), (Start: 109 @38652 has 3 MA's), (114, 38658), (Start: 135 @38688 has 5 MA's), (249, 39084),

Gene: Fang_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Fang_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Farrylous_96 Start: 72578, Stop: 72991, Start Num: 117

Candidate Starts for Farrylous_96:

(73, 72503), (Start: 84 @72521 has 9 MA's), (Start: 117 @72578 has 28 MA's), (159, 72674), (171, 72701), (173, 72713), (174, 72716), (186, 72764),

Gene: Finch_57 Start: 47485, Stop: 47922, Start Num: 96

Candidate Starts for Finch_57:

(Start: 96 @47485 has 2 MA's), (103, 47497), (132, 47542), (177, 47668), (184, 47695), (190, 47713), (212, 47779), (226, 47824), (250, 47881), (252, 47884),

Gene: Floral_64 Start: 44701, Stop: 45162, Start Num: 84

Candidate Starts for Floral_64:

(31, 44551), (33, 44554), (49, 44629), (50, 44632), (Start: 84 @44701 has 9 MA's), (94, 44707), (141, 44788), (173, 44884), (206, 45001),

Gene: Fludd_142 Start: 82309, Stop: 82725, Start Num: 107

Candidate Starts for Fludd_142:

(15, 81832), (Start: 107 @82309 has 23 MA's), (141, 82366), (163, 82429), (184, 82498), (198, 82543), (212, 82582),

Gene: FluffyNinja_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for FluffyNinja_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Footloose_54 Start: 31404, Stop: 31829, Start Num: 120

Candidate Starts for Footloose_54:

(40, 31218), (56, 31281), (Start: 120 @31404 has 1 MA's), (163, 31515), (168, 31530), (214, 31677), (215, 31680), (261, 31818),

Gene: Fosterous_16 Start: 14357, Stop: 14803, Start Num: 102

Candidate Starts for Fosterous_16:

(Start: 86 @14336 has 2 MA's), (Start: 95 @14348 has 2 MA's), (Start: 102 @14357 has 160 MA's), (Start: 122 @14387 has 2 MA's), (126, 14396), (188, 14567), (195, 14600), (206, 14642), (217, 14663), (230, 14708), (247, 14744),

Gene: Frankicide_10 Start: 8945, Stop: 9379, Start Num: 102

Candidate Starts for Frankicide_10:

(Start: 102 @8945 has 160 MA's), (124, 8984), (140, 9008), (169, 9089), (195, 9179), (217, 9242),

Gene: Fransoyer_69 Start: 49557, Stop: 49093, Start Num: 96

Candidate Starts for Fransoyer_69:

(65, 49611), (Start: 96 @49557 has 2 MA's), (153, 49434), (202, 49263), (210, 49248), (213, 49242),

Gene: FriarPreacher_10 Start: 8946, Stop: 9380, Start Num: 102

Candidate Starts for FriarPreacher_10:

(Start: 102 @8946 has 160 MA's), (124, 8985), (140, 9009), (169, 9090), (195, 9180), (217, 9243),

Gene: Fringe_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Fringe_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: FrumpyGal_45 Start: 30161, Stop: 30652, Start Num: 81

Candidate Starts for FrumpyGal_45:

(Start: 81 @30161 has 11 MA's), (195, 30413), (198, 30428),

Gene: GMA6_35 Start: 29073, Stop: 29516, Start Num: 102

Candidate Starts for GMA6_35:

(Start: 90 @29058 has 1 MA's), (Start: 102 @29073 has 160 MA's), (105, 29082), (128, 29121), (140, 29145), (179, 29274), (182, 29286), (183, 29289), (189, 29301), (224, 29424),

Gene: GMA6_79 Start: 60811, Stop: 61245, Start Num: 95

Candidate Starts for GMA6_79:

(Start: 95 @60811 has 2 MA's), (Start: 120 @60850 has 1 MA's), (141, 60892), (159, 60946), (168, 60967), (194, 61051), (198, 61072),

Gene: GageAP_46 Start: 34874, Stop: 34401, Start Num: 102

Candidate Starts for GageAP_46:

(Start: 102 @34874 has 160 MA's), (110, 34859), (149, 34787), (151, 34772), (173, 34709), (184, 34670), (200, 34616), (222, 34574), (234, 34538), (249, 34484),

Gene: Gaia_17 Start: 16945, Stop: 17430, Start Num: 101

Candidate Starts for Gaia_17:

(Start: 101 @16945 has 2 MA's), (104, 16954), (188, 17170), (198, 17209), (200, 17218), (219, 17269), (256, 17368),

Gene: Galadriel_20 Start: 14216, Stop: 14662, Start Num: 102

Candidate Starts for Galadriel_20:

(Start: 86 @14195 has 2 MA's), (Start: 95 @14207 has 2 MA's), (Start: 102 @14216 has 160 MA's), (Start: 122 @14246 has 2 MA's), (126, 14255), (188, 14426), (195, 14459), (206, 14501), (217, 14522), (230, 14567), (247, 14603),

Gene: GeneCoco_10 Start: 8949, Stop: 9383, Start Num: 102

Candidate Starts for GeneCoco_10:

(Start: 102 @8949 has 160 MA's), (124, 8988), (140, 9012), (169, 9093), (195, 9183), (217, 9246),

Gene: Goku_81 Start: 51146, Stop: 51592, Start Num: 97

Candidate Starts for Goku_81:

(80, 51122), (Start: 97 @51146 has 5 MA's), (130, 51200), (182, 51359), (195, 51398), (199, 51419), (244, 51530),

Gene: Gophee_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Gophee_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Grayson_217 Start: 108140, Stop: 108661, Start Num: 89

Candidate Starts for Grayson_217:

(74, 108113), (79, 108119), (Start: 89 @108140 has 5 MA's), (143, 108236), (175, 108338), (179, 108356), (181, 108365), (182, 108368), (255, 108605),

Gene: Gudmit_38 Start: 27363, Stop: 27896, Start Num: 111

Candidate Starts for Gudmit_38:

(Start: 111 @27363 has 3 MA's), (127, 27390), (225, 27666), (240, 27711),

Gene: Gustavo_49 Start: 42016, Stop: 42534, Start Num: 76

Candidate Starts for Gustavo_49:

(Start: 76 @42016 has 16 MA's), (98, 42046), (175, 42232), (200, 42322), (205, 42334), (264, 42529),

Gene: Gwennie1_10 Start: 8961, Stop: 9395, Start Num: 102

Candidate Starts for Gwennie1_10:

(Start: 102 @8961 has 160 MA's), (124, 9000), (140, 9024), (169, 9105), (195, 9195), (217, 9258),

Gene: Gwilliam_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Gwilliam_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Gyarad_0010 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Gyarad_0010:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: HFrancette_45 Start: 30939, Stop: 31430, Start Num: 81

Candidate Starts for HFrancette_45:

(Start: 81 @30939 has 11 MA's), (195, 31191), (198, 31206),

Gene: HSavage_10 Start: 8945, Stop: 9379, Start Num: 102

Candidate Starts for HSavage_10:

(Start: 102 @8945 has 160 MA's), (124, 8984), (140, 9008), (169, 9089), (195, 9179), (217, 9242),

Gene: Haimas_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Haimas_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Hamish_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Hamish_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Hartsy_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Hartsy_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Harvey_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Harvey_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Hertubise_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Hertubise_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Hestia_63 Start: 34911, Stop: 35363, Start Num: 135

Candidate Starts for Hestia_63:

(43, 34734), (Start: 109 @34875 has 3 MA's), (114, 34881), (Start: 135 @34911 has 5 MA's), (249, 35307),

Gene: Hetaeria_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Hetaeria_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Horchata_10 Start: 8942, Stop: 9376, Start Num: 102

Candidate Starts for Horchata_10:

(Start: 102 @8942 has 160 MA's), (124, 8981), (140, 9005), (169, 9086), (195, 9176), (217, 9239),

Gene: HumptyDumpty_100 Start: 63534, Stop: 64028, Start Num: 117

Candidate Starts for HumptyDumpty_100:

(60, 63426), (78, 63465), (Start: 117 @63534 has 28 MA's), (151, 63618), (172, 63690), (182, 63729), (257, 63999),

Gene: HyRo_132 Start: 82234, Stop: 82650, Start Num: 107

Candidate Starts for HyRo_132:

(15, 81757), (Start: 107 @82234 has 23 MA's), (141, 82291), (163, 82354), (184, 82423), (198, 82468), (212, 82507),

Gene: Ididsumtinwong_46 Start: 30014, Stop: 30484, Start Num: 99

Candidate Starts for Ididsumtinwong_46:

(Start: 72 @29978 has 2 MA's), (Start: 99 @30014 has 3 MA's), (200, 30272), (206, 30290), (216, 30311),

Gene: Ignacio_44 Start: 30842, Stop: 31333, Start Num: 81

Candidate Starts for Ignacio_44:

(Start: 81 @30842 has 11 MA's), (195, 31094), (198, 31109),

Gene: Inchworm_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Inchworm_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Inverness_10 Start: 8945, Stop: 9379, Start Num: 102

Candidate Starts for Inverness_10:

(Start: 102 @8945 has 160 MA's), (124, 8984), (140, 9008), (169, 9089), (195, 9179), (217, 9242),

Gene: Iridoclysis_10 Start: 8947, Stop: 9381, Start Num: 102

Candidate Starts for Iridoclysis_10:

(Start: 102 @8947 has 160 MA's), (124, 8986), (140, 9010), (169, 9091), (195, 9181), (217, 9244),

Gene: IrishSherpFalk_88 Start: 51234, Stop: 51749, Start Num: 75

Candidate Starts for IrishSherpFalk_88:

(Start: 75 @51234 has 1 MA's), (Start: 77 @51237 has 1 MA's), (Start: 120 @51297 has 1 MA's), (182, 51474), (199, 51534), (236, 51621), (256, 51687), (262, 51720),

Gene: IsaacEli_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for IsaacEli_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: JKSyngboy_47 Start: 42615, Stop: 43133, Start Num: 76

Candidate Starts for JKSyngboy_47:

(Start: 76 @42615 has 16 MA's), (98, 42645), (175, 42831), (200, 42921), (205, 42933), (264, 43128),

Gene: JaNo_99 Start: 63505, Stop: 63999, Start Num: 117

Candidate Starts for JaNo_99:

(60, 63397), (78, 63436), (Start: 117 @63505 has 28 MA's), (151, 63589), (172, 63661), (182, 63700), (257, 63970),

Gene: JacAttac_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for JacAttac_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: JangoPhett_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for JangoPhett_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Jessibeth14_140 Start: 83080, Stop: 83496, Start Num: 107

Candidate Starts for Jessibeth14_140:

(15, 82603), (Start: 107 @83080 has 23 MA's), (141, 83137), (163, 83200), (184, 83269), (198, 83314), (212, 83353),

Gene: KBurrousTX_96 Start: 64281, Stop: 64742, Start Num: 117

Candidate Starts for KBurrousTX_96:

(Start: 117 @64281 has 28 MA's), (129, 64299), (165, 64410), (187, 64503), (192, 64521), (195, 64536), (208, 64584),

Gene: KLUcky39_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for KLUcky39_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Kabreeze_100 Start: 63591, Stop: 64085, Start Num: 117

Candidate Starts for Kabreeze_100:

(60, 63483), (78, 63522), (Start: 117 @63591 has 28 MA's), (151, 63675), (172, 63747), (182, 63786), (257, 64056),

Gene: Kailash_10 Start: 8952, Stop: 9386, Start Num: 102

Candidate Starts for Kailash_10:

(Start: 102 @8952 has 160 MA's), (124, 8991), (140, 9015), (169, 9096), (195, 9186), (217, 9249),

Gene: Kamashten_49 Start: 42108, Stop: 42626, Start Num: 76

Candidate Starts for Kamashten_49:

(Start: 76 @42108 has 16 MA's), (175, 42324), (200, 42414), (205, 42426),

Gene: Katniss_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Katniss_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Keitabear_50 Start: 43627, Stop: 44148, Start Num: 64

Candidate Starts for Keitabear_50:

(62, 43618), (Start: 64 @43627 has 5 MA's), (Start: 76 @43630 has 16 MA's), (175, 43846), (200, 43936), (205, 43948),

Gene: Keitabear_20 Start: 16560, Stop: 17006, Start Num: 102

Candidate Starts for Keitabear_20:

(Start: 86 @16539 has 2 MA's), (Start: 95 @16551 has 2 MA's), (Start: 102 @16560 has 160 MA's), (Start: 122 @16590 has 2 MA's), (126, 16599), (188, 16770), (195, 16803), (206, 16845), (217, 16866), (230, 16911), (247, 16947),

Gene: Keitherie_10 Start: 8957, Stop: 9391, Start Num: 102

Candidate Starts for Keitherie_10:

(Start: 102 @8957 has 160 MA's), (124, 8996), (140, 9020), (141, 9023), (169, 9101), (195, 9191), (217, 9254),

Gene: KentuckyRacer_110 Start: 73819, Stop: 74262, Start Num: 121

Candidate Starts for KentuckyRacer_110:

(Start: 121 @73819 has 2 MA's), (195, 74038), (198, 74053), (209, 74089),

Gene: Kewpiedoll_51 Start: 43059, Stop: 43577, Start Num: 76

Candidate Starts for Kewpiedoll_51:

(62, 43047), (Start: 64 @43056 has 5 MA's), (Start: 76 @43059 has 16 MA's), (175, 43275), (200, 43365), (205, 43377),

Gene: Kikipoo_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Kikipoo_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: KingVeVeVe_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for KingVeVeVe_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: KlimbOn_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for KlimbOn_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Kloppinator_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Kloppinator_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Koguma_138 Start: 80718, Stop: 81134, Start Num: 107

Candidate Starts for Koguma_138:

(15, 80241), (Start: 107 @80718 has 23 MA's), (141, 80775), (163, 80838), (184, 80907), (198, 80952), (212, 80991),

Gene: Kroos_19 Start: 14665, Stop: 15102, Start Num: 122

Candidate Starts for Kroos_19:

(Start: 95 @14620 has 2 MA's), (Start: 102 @14629 has 160 MA's), (Start: 122 @14665 has 2 MA's), (146, 14716), (169, 14782), (206, 14926), (217, 14947),

Gene: Kumotta_56 Start: 32485, Stop: 32964, Start Num: 85

Candidate Starts for Kumotta_56:

(42, 32380), (Start: 82 @32479 has 1 MA's), (Start: 85 @32485 has 1 MA's), (178, 32686), (180, 32701), (195, 32743), (221, 32827),

Gene: Kwobi_20 Start: 14596, Stop: 15078, Start Num: 95

Candidate Starts for Kwobi_20:

(Start: 95 @14596 has 2 MA's), (Start: 102 @14605 has 160 MA's), (Start: 122 @14641 has 2 MA's), (146, 14692), (169, 14758), (206, 14902), (217, 14923),

Gene: Kwobi_51 Start: 42725, Stop: 43243, Start Num: 76

Candidate Starts for Kwobi_51:

(Start: 76 @42725 has 16 MA's), (98, 42755), (175, 42941), (200, 43031), (205, 43043),

Gene: LRRHood_134 Start: 82526, Stop: 82942, Start Num: 107

Candidate Starts for LRRHood_134:

(15, 82049), (Start: 107 @82526 has 23 MA's), (141, 82583), (163, 82646), (184, 82715), (198, 82760), (212, 82799),

Gene: Larnav_222 Start: 113173, Stop: 113613, Start Num: 117

Candidate Starts for Larnav_222:

(39, 112978), (44, 113014), (67, 113086), (69, 113092), (74, 113101), (92, 113131), (Start: 97 @113137 has 5 MA's), (100, 113140), (103, 113146), (Start: 117 @113173 has 28 MA's), (158, 113269), (176, 113320), (202, 113413), (225, 113485), (243, 113539), (254, 113572),

Gene: LasagnaCat_10 Start: 8952, Stop: 9386, Start Num: 102

Candidate Starts for LasagnaCat_10:

(Start: 102 @8952 has 160 MA's), (124, 8991), (140, 9015), (169, 9096), (195, 9186), (217, 9249),

Gene: Lasker_72 Start: 38250, Stop: 38732, Start Num: 114

Candidate Starts for Lasker_72:

(43, 38103), (Start: 109 @38244 has 3 MA's), (114, 38250), (Start: 135 @38280 has 5 MA's), (249, 38676),

Gene: Lasso_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Lasso_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: LeeLot_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for LeeLot_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Lego3393_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Lego3393_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Lennon_20 Start: 15643, Stop: 16110, Start Num: 86

Candidate Starts for Lennon_20:

(Start: 86 @15643 has 2 MA's), (Start: 95 @15655 has 2 MA's), (Start: 102 @15664 has 160 MA's), (Start: 122 @15694 has 2 MA's), (126, 15703), (188, 15874), (195, 15907), (206, 15949), (217, 15970), (230, 16015), (247, 16051),

Gene: Lennon_50 Start: 43707, Stop: 44228, Start Num: 64

Candidate Starts for Lennon_50:

(62, 43698), (Start: 64 @43707 has 5 MA's), (Start: 76 @43710 has 16 MA's), (175, 43926), (200, 44016), (205, 44028),

Gene: Linus_100 Start: 64039, Stop: 64533, Start Num: 117

Candidate Starts for Linus_100:

(60, 63931), (78, 63970), (Start: 117 @64039 has 28 MA's), (151, 64123), (172, 64195), (182, 64234), (257, 64504),

Gene: Lishka_42 Start: 27718, Stop: 28179, Start Num: 99

Candidate Starts for Lishka_42:

(Start: 99 @27718 has 3 MA's), (195, 27982), (199, 28003), (223, 28066),

Gene: LolaVince_141 Start: 83494, Stop: 83910, Start Num: 107

Candidate Starts for LolaVince_141:

(15, 83017), (Start: 107 @83494 has 23 MA's), (141, 83551), (163, 83614), (184, 83683), (198, 83728), (212, 83767),

Gene: Love_20 Start: 14527, Stop: 14973, Start Num: 102

Candidate Starts for Love_20:

(Start: 86 @14506 has 2 MA's), (Start: 95 @14518 has 2 MA's), (Start: 102 @14527 has 160 MA's), (Start: 122 @14557 has 2 MA's), (126, 14566), (188, 14737), (195, 14770), (206, 14812), (217, 14833), (230, 14878), (247, 14914),

Gene: Love_55 Start: 44334, Stop: 44852, Start Num: 76

Candidate Starts for Love_55:

(62, 44322), (Start: 64 @44331 has 5 MA's), (Start: 76 @44334 has 16 MA's), (175, 44550), (200, 44640), (205, 44652),

Gene: Lton_30 Start: 23640, Stop: 24134, Start Num: 82

Candidate Starts for Lton_30:

(Start: 82 @23640 has 1 MA's), (131, 23715), (134, 23721), (157, 23784), (198, 23916), (214, 23958), (218, 23973),

Gene: Lukilu_131 Start: 83536, Stop: 83952, Start Num: 107

Candidate Starts for Lukilu_131:

(15, 83059), (Start: 107 @83536 has 23 MA's), (141, 83593), (163, 83656), (184, 83725), (198, 83770), (212, 83809),

Gene: Lululemon_219 Start: 112060, Stop: 112500, Start Num: 117

Candidate Starts for Lululemon_219:

(39, 111865), (44, 111901), (67, 111973), (69, 111979), (74, 111988), (92, 112018), (Start: 97 @112024 has 5 MA's), (100, 112027), (103, 112033), (Start: 117 @112060 has 28 MA's), (158, 112156), (176, 112207), (202, 112300), (225, 112372), (243, 112426), (254, 112459),

Gene: Lulwa_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Lulwa_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Lymara_98 Start: 62394, Stop: 62876, Start Num: 117

Candidate Starts for Lymara_98:

(36, 62202), (60, 62298), (Start: 117 @62394 has 28 MA's), (169, 62526),

Gene: Magic8_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Magic8_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Makar_96 Start: 57907, Stop: 11, Start Num: 119

Candidate Starts for Makar_96:

(58, 57787), (Start: 84 @57847 has 9 MA's), (119, 57907), (138, 57943), (160, 58012), (164, 58027), (170, 58030), (237, 58225),

Gene: Manda_84 Start: 52535, Stop: 52981, Start Num: 97

Candidate Starts for Manda_84:

(80, 52511), (Start: 97 @52535 has 5 MA's), (130, 52589), (182, 52748), (195, 52787), (199, 52808), (244, 52919),

Gene: Mangeria_141 Start: 83337, Stop: 83753, Start Num: 107

Candidate Starts for Mangeria_141:

(15, 82860), (Start: 107 @83337 has 23 MA's), (141, 83394), (163, 83457), (184, 83526), (198, 83571), (212, 83610),

Gene: Marteenaa_62 Start: 42816, Stop: 43277, Start Num: 84

Candidate Starts for Marteena_62:

(31, 42666), (33, 42669), (49, 42744), (50, 42747), (Start: 84 @42816 has 9 MA's), (94, 42822), (141, 42903), (173, 42999), (206, 43116),

Gene: Matalotodo_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Matalotodo_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Matteo_53 Start: 35852, Stop: 36313, Start Num: 84

Candidate Starts for Matteo_53:

(31, 35702), (49, 35780), (50, 35783), (Start: 84 @35852 has 9 MA's), (94, 35858), (141, 35939), (173, 36035), (206, 36152),

Gene: McCrothy_19 Start: 14432, Stop: 14839, Start Num: 126

Candidate Starts for McCrothy_19:

(Start: 86 @14372 has 2 MA's), (Start: 95 @14384 has 2 MA's), (Start: 102 @14393 has 160 MA's), (Start: 122 @14423 has 2 MA's), (126, 14432), (188, 14603), (195, 14636), (206, 14678), (217, 14699), (230, 14744), (247, 14780),

Gene: McCrothy_51 Start: 43461, Stop: 43982, Start Num: 64

Candidate Starts for McCrothy_51:

(62, 43452), (Start: 64 @43461 has 5 MA's), (Start: 76 @43464 has 16 MA's), (175, 43680), (200, 43770), (205, 43782),

Gene: Megatron_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Megatron_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Melc17_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Melc17_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Mesh1_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Mesh1_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: MikeLiesIn_142 Start: 83297, Stop: 83713, Start Num: 107

Candidate Starts for MikeLiesIn_142:

(15, 82820), (Start: 107 @83297 has 23 MA's), (141, 83354), (163, 83417), (184, 83486), (198, 83531), (212, 83570),

Gene: Mikota_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Mikota_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Mildred21_232 Start: 111445, Stop: 111885, Start Num: 117

Candidate Starts for Mildred21_232:

(103, 111418), (Start: 117 @111445 has 28 MA's), (176, 111592), (202, 111685), (225, 111757), (243, 111811), (254, 111844),

Gene: MiniBoss_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for MiniBoss_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: MintFritos_94 Start: 72730, Stop: 73143, Start Num: 117

Candidate Starts for MintFritos_94:

(73, 72655), (Start: 84 @72673 has 9 MA's), (Start: 117 @72730 has 28 MA's), (159, 72826), (171, 72853), (173, 72865), (174, 72868), (186, 72916),

Gene: Moby_134 Start: 80939, Stop: 81355, Start Num: 107

Candidate Starts for Moby_134:

(15, 80462), (Start: 107 @80939 has 23 MA's), (141, 80996), (163, 81059), (184, 81128), (198, 81173), (212, 81212),

Gene: Moiqah_133 Start: 80916, Stop: 81332, Start Num: 107

Candidate Starts for Moiqah_133:

(15, 80439), (Start: 107 @80916 has 23 MA's), (141, 80973), (163, 81036), (184, 81105), (198, 81150), (212, 81189),

Gene: Mojarita_45 Start: 30760, Stop: 31281, Start Num: 89

Candidate Starts for Mojarita_45:

(Start: 89 @30760 has 5 MA's), (206, 31048), (222, 31099), (232, 31132), (233, 31138), (242, 31168),

Gene: MoontowerMania_50 Start: 43336, Stop: 43860, Start Num: 76

Candidate Starts for MoontowerMania_50:

(69, 43324), (74, 43333), (Start: 76 @43336 has 16 MA's), (175, 43558), (200, 43648), (205, 43660),

Gene: Mordred_100 Start: 63630, Stop: 64124, Start Num: 117

Candidate Starts for Mordred_100:

(60, 63522), (78, 63561), (Start: 117 @63630 has 28 MA's), (151, 63714), (172, 63786), (182, 63825), (257, 64095),

Gene: Morty_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Morty_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: MortyNRick_64 Start: 42082, Stop: 42537, Start Num: 87

Candidate Starts for MortyNRick_64:

(Start: 87 @42082 has 1 MA's), (104, 42106), (152, 42211), (177, 42283), (245, 42475),

Gene: Murdoc_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Murdoc_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Music_78 Start: 47190, Stop: 47681, Start Num: 106

Candidate Starts for Music_78:

(Start: 106 @47190 has 1 MA's),

Gene: Nacho_0010 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Nacho_0010:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Nathan_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Nathan_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Nebkiss_18 Start: 16946, Stop: 17431, Start Num: 101

Candidate Starts for Nebkiss_18:

(Start: 101 @16946 has 2 MA's), (104, 16955), (188, 17171), (198, 17210), (200, 17219), (219, 17270), (256, 17369),

Gene: Neobush_64 Start: 42273, Stop: 42734, Start Num: 84

Candidate Starts for Neobush_64:

(53, 42207), (Start: 84 @42273 has 9 MA's), (159, 42420), (172, 42456), (179, 42483), (195, 42531), (206, 42573), (211, 42582), (229, 42642),

Gene: Newman_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Newman_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Nicole21_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Nicole21_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Nordenberg_13 Start: 12847, Stop: 13293, Start Num: 102

Candidate Starts for Nordenberg_13:

(Start: 86 @12826 has 2 MA's), (Start: 95 @12838 has 2 MA's), (Start: 102 @12847 has 160 MA's), (Start: 122 @12877 has 2 MA's), (126, 12886), (188, 13057), (195, 13090), (206, 13132), (217, 13153), (230, 13198), (247, 13234),

Gene: Numberten_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Numberten_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: OSmaximus_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for OSmaximus_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Olive_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Olive_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: OliverWalter_10 Start: 8939, Stop: 9373, Start Num: 102

Candidate Starts for OliverWalter_10:

(Start: 102 @8939 has 160 MA's), (124, 8978), (140, 9002), (169, 9083), (195, 9173), (217, 9236),

Gene: Omniscient_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Omniscient_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Oosterbaan_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Oosterbaan_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Orion_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Orion_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: PG1_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for PG1_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: PacManQ_219 Start: 112060, Stop: 112500, Start Num: 117

Candidate Starts for PacManQ_219:

(39, 111865), (44, 111901), (67, 111973), (69, 111979), (74, 111988), (92, 112018), (Start: 97 @112024 has 5 MA's), (100, 112027), (103, 112033), (Start: 117 @112060 has 28 MA's), (158, 112156), (176, 112207), (202, 112300), (225, 112372), (243, 112426), (254, 112459),

Gene: PapayaSalad_44 Start: 30268, Stop: 30774, Start Num: 72

Candidate Starts for PapayaSalad_44:

(Start: 72 @30268 has 2 MA's), (Start: 99 @30304 has 3 MA's), (200, 30562), (206, 30580), (216, 30601),

Gene: Paries_19 Start: 14215, Stop: 14661, Start Num: 102

Candidate Starts for Paries_19:

(Start: 86 @14194 has 2 MA's), (Start: 95 @14206 has 2 MA's), (Start: 102 @14215 has 160 MA's), (Start: 122 @14245 has 2 MA's), (126, 14254), (188, 14425), (195, 14458), (206, 14500), (217, 14521), (230, 14566), (247, 14602),

Gene: Persimmon_162 Start: 90873, Stop: 91259, Start Num: 135

Candidate Starts for Persimmon_162:

(Start: 108 @90837 has 1 MA's), (Start: 112 @90843 has 1 MA's), (Start: 135 @90873 has 5 MA's), (159, 90942), (186, 91029), (207, 91095),

Gene: Phamished_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Phamished_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: PhatCats2014_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for PhatCats2014_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: PhatLouie_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for PhatLouie_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Pherdinand_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Pherdinand_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Phipps_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Phipps_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Phistory_56 Start: 36066, Stop: 36515, Start Num: 116

Candidate Starts for Phistory_56:

(68, 35985), (Start: 116 @36066 has 4 MA's), (149, 36138), (178, 36234), (188, 36270), (235, 36399), (238, 36405), (262, 36504),

Gene: PhorbesPhlower_38 Start: 28562, Stop: 29011, Start Num: 116

Candidate Starts for PhorbesPhlower_38:

(68, 28481), (Start: 116 @28562 has 4 MA's), (178, 28730), (188, 28766), (235, 28895), (262, 29000),

Gene: Phox_138 Start: 83560, Stop: 83976, Start Num: 107

Candidate Starts for Phox_138:

(15, 83083), (Start: 107 @83560 has 23 MA's), (141, 83617), (163, 83680), (184, 83749), (198, 83794), (212, 83833),

Gene: PhrodoBaggins_105 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for PhrodoBaggins_105:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Phunky_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Phunky_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Picard_45 Start: 30958, Stop: 31479, Start Num: 89

Candidate Starts for Picard_45:

(Start: 89 @30958 has 5 MA's), (206, 31246), (233, 31336), (242, 31366), (260, 31432),

Gene: Piccadilly_44 Start: 30160, Stop: 30651, Start Num: 81

Candidate Starts for Piccadilly_44:

(Start: 81 @30160 has 11 MA's), (195, 30412), (198, 30427),

Gene: Pio_145 Start: 85169, Stop: 85585, Start Num: 107

Candidate Starts for Pio_145:

(15, 84692), (Start: 107 @85169 has 23 MA's), (141, 85226), (163, 85289), (184, 85358), (198, 85403), (212, 85442),

Gene: Pipsqueak_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Pipsqueak_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Plmatters_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Plmatters_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Podrick_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Podrick_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Pollux_66 Start: 44701, Stop: 45162, Start Num: 84

Candidate Starts for Pollux_66:

(31, 44551), (33, 44554), (49, 44629), (50, 44632), (Start: 84 @44701 has 9 MA's), (94, 44707), (141, 44788), (173, 44884), (206, 45001),

Gene: Pops_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Pops_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Prickles_10 Start: 8949, Stop: 9383, Start Num: 102

Candidate Starts for Prickles_10:

(Start: 102 @8949 has 160 MA's), (124, 8988), (140, 9012), (169, 9093), (195, 9183), (217, 9246),

Gene: PrincessTrina_101 Start: 63821, Stop: 64315, Start Num: 117

Candidate Starts for PrincessTrina_101:

(60, 63713), (78, 63752), (Start: 117 @63821 has 28 MA's), (151, 63905), (172, 63977), (182, 64016), (257, 64286),

Gene: ProfessorX_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for ProfessorX_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Puhltonio_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Puhltonio_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: QueenBeane_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for QueenBeane_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Quisquiliae_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Quisquiliae_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: REQ3_10 Start: 4829, Stop: 5143, Start Num: 160

Candidate Starts for REQ3_10:

(Start: 109 @4724 has 3 MA's), (Start: 116 @4733 has 4 MA's), (160, 4829), (162, 4835), (182, 4904), (188, 4919),

Gene: Rabinovish_140 Start: 83892, Stop: 84308, Start Num: 107

Candidate Starts for Rabinovish_140:

(15, 83415), (Start: 107 @83892 has 23 MA's), (141, 83949), (163, 84012), (184, 84081), (198, 84126), (212, 84165),

Gene: Raleigh_43 Start: 33449, Stop: 33964, Start Num: 88

Candidate Starts for Raleigh_43:

(Start: 88 @33449 has 3 MA's), (Start: 115 @33488 has 1 MA's), (205, 33728), (206, 33734),

Gene: Riggan_10 Start: 8947, Stop: 9381, Start Num: 102

Candidate Starts for Riggan_10:

(Start: 102 @8947 has 160 MA's), (124, 8986), (140, 9010), (169, 9091), (195, 9181), (217, 9244),

Gene: Rofo_18 Start: 14497, Stop: 14928, Start Num: 122

Candidate Starts for Rofo_18:

(Start: 86 @14446 has 2 MA's), (Start: 95 @14458 has 2 MA's), (Start: 102 @14467 has 160 MA's), (Start: 122 @14497 has 2 MA's), (126, 14506), (188, 14677), (195, 14710), (206, 14752), (217, 14773), (230, 14818), (247, 14854),

Gene: Roliet_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Roliet_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: RomansRevenge_75 Start: 50908, Stop: 50471, Start Num: 115

Candidate Starts for RomansRevenge_75:

(67, 50992), (70, 50983), (Start: 115 @50908 has 1 MA's), (175, 50743), (185, 50698), (228, 50596), (233, 50578), (239, 50560),

Gene: Roscoe_11 Start: 9178, Stop: 9612, Start Num: 102

Candidate Starts for Roscoe_11:

(Start: 102 @9178 has 160 MA's), (124, 9217), (140, 9241), (169, 9322), (195, 9412), (217, 9475),

Gene: RosiePosie_100 Start: 63686, Stop: 64180, Start Num: 117

Candidate Starts for RosiePosie_100:

(60, 63578), (78, 63617), (Start: 117 @63686 has 28 MA's), (151, 63770), (172, 63842), (178, 63860), (182, 63881),

Gene: SDcharge11_10 Start: 8936, Stop: 9370, Start Num: 102

Candidate Starts for SDcharge11_10:

(Start: 102 @8936 has 160 MA's), (124, 8975), (140, 8999), (169, 9080), (195, 9170), (217, 9233),

Gene: SV1_42 Start: 29657, Stop: 30169, Start Num: 90

Candidate Starts for SV1_42:

(Start: 90 @29657 has 1 MA's), (190, 29882), (220, 29981), (232, 30020), (233, 30026), (242, 30056),

Gene: SVoro_139 Start: 83654, Stop: 84070, Start Num: 107

Candidate Starts for SVoro_139:

(15, 83177), (Start: 107 @83654 has 23 MA's), (141, 83711), (163, 83774), (184, 83843), (198, 83888), (212, 83927),

Gene: SadLad_28 Start: 14537, Stop: 14064, Start Num: 121

Candidate Starts for SadLad_28:

(1, 15395), (2, 15374), (3, 15371), (4, 15356), (5, 15353), (6, 15335), (7, 15299), (8, 15278), (9, 15239), (10, 15185), (11, 15182), (12, 15173), (13, 15155), (14, 15065), (17, 15011), (19, 14957), (20, 14912), (22, 14870), (23, 14864), (25, 14822), (26, 14816), (27, 14798), (28, 14792), (30, 14780), (34, 14759), (35, 14756), (43, 14705), (Start: 48 @14693 has 1 MA's), (51, 14681), (57, 14660), (71, 14621), (105, 14564), (Start: 121 @14537 has 2 MA's), (167, 14405), (172, 14387), (187, 14321), (195, 14282), (201, 14258), (204, 14249), (233, 14168),

Gene: Samaymay_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Samaymay_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Samy_46 Start: 31456, Stop: 31815, Start Num: 150

Candidate Starts for Samy_46:

(Start: 150 @31456 has 1 MA's), (165, 31495), (172, 31516), (176, 31528), (182, 31555), (195, 31591), (198, 31606), (207, 31636),

Gene: Saronaya_49 Start: 42016, Stop: 42534, Start Num: 76

Candidate Starts for Saronaya_49:

(Start: 76 @42016 has 16 MA's), (98, 42046), (175, 42232), (200, 42322), (205, 42334), (264, 42529),

Gene: Scavito_101 Start: 63679, Stop: 64173, Start Num: 117

Candidate Starts for Scavito_101:

(60, 63571), (78, 63610), (Start: 117 @63679 has 28 MA's), (151, 63763), (172, 63835), (182, 63874), (257, 64144),

Gene: Schlegelian_45 Start: 30710, Stop: 31201, Start Num: 81

Candidate Starts for Schlegelian_45:

(Start: 81 @30710 has 11 MA's), (195, 30962), (198, 30977),

Gene: Scoot17C_10 Start: 8944, Stop: 9378, Start Num: 102
Candidate Starts for Scoot17C_10:
(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Sedona_50 Start: 43310, Stop: 43828, Start Num: 76
Candidate Starts for Sedona_50:
(Start: 76 @43310 has 16 MA's), (98, 43340), (175, 43526), (200, 43616), (205, 43628),

Gene: Serendipity_10 Start: 8943, Stop: 9377, Start Num: 102
Candidate Starts for Serendipity_10:
(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Serpentine_0010 Start: 8943, Stop: 9377, Start Num: 102
Candidate Starts for Serpentine_0010:
(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Shaqnato_134 Start: 81274, Stop: 81690, Start Num: 107
Candidate Starts for Shaqnato_134:
(15, 80797), (Start: 107 @81274 has 23 MA's), (141, 81331), (163, 81394), (184, 81463), (198, 81508),
(212, 81547),

Gene: Sheila_10 Start: 8941, Stop: 9375, Start Num: 102
Candidate Starts for Sheila_10:
(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Shelob_143 Start: 84076, Stop: 84492, Start Num: 107
Candidate Starts for Shelob_143:
(15, 83599), (Start: 107 @84076 has 23 MA's), (141, 84133), (163, 84196), (184, 84265), (198, 84310),
(212, 84349),

Gene: ShiVal_10 Start: 8943, Stop: 9377, Start Num: 102
Candidate Starts for ShiVal_10:
(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Shifa_130 Start: 81500, Stop: 81916, Start Num: 107
Candidate Starts for Shifa_130:
(15, 81023), (Start: 107 @81500 has 23 MA's), (141, 81557), (163, 81620), (184, 81689), (198, 81734),
(212, 81773),

Gene: Shivanishola_50 Start: 42031, Stop: 42549, Start Num: 76
Candidate Starts for Shivanishola_50:
(62, 42019), (Start: 64 @42028 has 5 MA's), (Start: 76 @42031 has 16 MA's), (175, 42247), (200,
42337), (205, 42349),

Gene: Shuckle_221 Start: 113504, Stop: 113944, Start Num: 117
Candidate Starts for Shuckle_221:
(39, 113309), (44, 113345), (67, 113417), (69, 113423), (74, 113432), (92, 113462), (Start: 97
@113468 has 5 MA's), (100, 113471), (103, 113477), (Start: 117 @113504 has 28 MA's), (158,
113600), (176, 113651), (202, 113744), (225, 113816), (243, 113870), (254, 113903),

Gene: Sigman_10 Start: 8940, Stop: 9374, Start Num: 102
Candidate Starts for Sigman_10:
(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Sitar_50 Start: 43707, Stop: 44228, Start Num: 64

Candidate Starts for Sitar_50:

(62, 43698), (Start: 64 @43707 has 5 MA's), (Start: 76 @43710 has 16 MA's), (175, 43926), (200, 44016), (205, 44028),

Gene: Sitar_20 Start: 15655, Stop: 16110, Start Num: 95

Candidate Starts for Sitar_20:

(Start: 86 @15643 has 2 MA's), (Start: 95 @15655 has 2 MA's), (Start: 102 @15664 has 160 MA's), (Start: 122 @15694 has 2 MA's), (126, 15703), (188, 15874), (195, 15907), (206, 15949), (217, 15970), (230, 16015), (247, 16051),

Gene: Skippy_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Skippy_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Slatt_10 Start: 8945, Stop: 9379, Start Num: 102

Candidate Starts for Slatt_10:

(Start: 102 @8945 has 160 MA's), (124, 8984), (140, 9008), (169, 9089), (195, 9179), (217, 9242),

Gene: SoJo_43 Start: 31466, Stop: 31978, Start Num: 89

Candidate Starts for SoJo_43:

(Start: 89 @31466 has 5 MA's), (125, 31523), (222, 31799), (242, 31868),

Gene: SophKB_98 Start: 59438, Stop: 59899, Start Num: 97

Candidate Starts for SophKB_98:

(Start: 97 @59438 has 5 MA's), (Start: 120 @59474 has 1 MA's), (166, 59594), (182, 59651), (195, 59690), (196, 59696),

Gene: Soto_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Soto_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Spartan300_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Spartan300_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Suffolk_10 Start: 8942, Stop: 9376, Start Num: 102

Candidate Starts for Suffolk_10:

(Start: 102 @8942 has 160 MA's), (124, 8981), (140, 9005), (169, 9086), (195, 9176), (217, 9239),

Gene: Superphikiman_163 Start: 84350, Stop: 84877, Start Num: 83

Candidate Starts for Superphikiman_163:

(Start: 63 @84308 has 2 MA's), (Start: 83 @84350 has 1 MA's), (93, 84365), (183, 84587), (200, 84644), (207, 84665),

Gene: Surely_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Surely_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Sushi23_223 Start: 114010, Stop: 114450, Start Num: 117

Candidate Starts for Sushi23_223:

(39, 113815), (44, 113851), (67, 113923), (69, 113929), (74, 113938), (92, 113968), (Start: 97 @113974 has 5 MA's), (100, 113977), (103, 113983), (Start: 117 @114010 has 28 MA's), (158, 114106), (176, 114157), (202, 114250), (225, 114322), (243, 114376), (254, 114409),

Gene: Swiphy_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Swiphy_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Swish_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Swish_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Tangent_16 Start: 13468, Stop: 13914, Start Num: 102

Candidate Starts for Tangent_16:

(Start: 86 @13447 has 2 MA's), (Start: 95 @13459 has 2 MA's), (Start: 102 @13468 has 160 MA's), (Start: 122 @13498 has 2 MA's), (126, 13507), (188, 13678), (195, 13711), (206, 13753), (217, 13774), (230, 13819), (247, 13855),

Gene: Targaryen_222 Start: 114182, Stop: 114622, Start Num: 117

Candidate Starts for Targaryen_222:

(67, 114095), (69, 114101), (74, 114110), (92, 114140), (Start: 97 @114146 has 5 MA's), (Start: 117 @114182 has 28 MA's), (158, 114278), (176, 114329), (202, 114422), (225, 114494), (243, 114548), (254, 114581),

Gene: Teardrop_140 Start: 81782, Stop: 82198, Start Num: 107

Candidate Starts for Teardrop_140:

(15, 81305), (Start: 107 @81782 has 23 MA's), (141, 81839), (163, 81902), (184, 81971), (198, 82016), (212, 82055),

Gene: Thing3_49 Start: 42108, Stop: 42626, Start Num: 76

Candidate Starts for Thing3_49:

(Start: 76 @42108 has 16 MA's), (175, 42324), (200, 42414), (205, 42426),

Gene: Thora_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Thora_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: ThreeOh3D2_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for ThreeOh3D2_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: ToastyFinz_42 Start: 32290, Stop: 32811, Start Num: 88

Candidate Starts for ToastyFinz_42:

(32, 32113), (59, 32227), (Start: 88 @32290 has 3 MA's), (145, 32383), (206, 32578), (222, 32629), (233, 32668), (242, 32698),

Gene: TomBombadil_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for TomBombadil_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Tomlarah_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Tomlarah_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Tooj_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Tooj_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Tophat_101 Start: 63868, Stop: 64362, Start Num: 117

Candidate Starts for Tophat_101:

(60, 63760), (78, 63799), (Start: 117 @63868 has 28 MA's), (151, 63952), (172, 64024), (182, 64063), (257, 64333),

Gene: Trypo_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Trypo_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Tubberson_43 Start: 31467, Stop: 31979, Start Num: 89

Candidate Starts for Tubberson_43:

(Start: 89 @31467 has 5 MA's), (125, 31524), (222, 31800), (242, 31869),

Gene: Tucker_41 Start: 26756, Stop: 26394, Start Num: 137

Candidate Starts for Tucker_41:

(Start: 137 @26756 has 2 MA's), (154, 26708), (184, 26609), (210, 26531), (231, 26471),

Gene: UAch1_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for UAch1_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Usavi_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Usavi_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: Valjean_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Valjean_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Vibaki_76 Start: 46752, Stop: 47243, Start Num: 106

Candidate Starts for Vibaki_76:

(Start: 106 @46752 has 1 MA's), (200, 47013),

Gene: Virapocalypse_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Virapocalypse_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Vista_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Vista_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Vivaldi_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Vivaldi_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: Vivi2_18 Start: 14618, Stop: 15085, Start Num: 86

Candidate Starts for Vivi2_18:

(Start: 86 @14618 has 2 MA's), (Start: 95 @14630 has 2 MA's), (Start: 102 @14639 has 160 MA's),
(Start: 122 @14669 has 2 MA's), (126, 14678), (188, 14849), (195, 14882), (206, 14924), (217, 14945),
(230, 14990), (247, 15026),

Gene: Vivi2_54 Start: 43935, Stop: 44456, Start Num: 64

Candidate Starts for Vivi2_54:

(62, 43926), (Start: 64 @43935 has 5 MA's), (Start: 76 @43938 has 16 MA's), (175, 44154), (200,
44244), (205, 44256),

Gene: Vondra_43 Start: 30012, Stop: 30503, Start Num: 81

Candidate Starts for Vondra_43:

(Start: 81 @30012 has 11 MA's), (195, 30264), (198, 30279),

Gene: Waterdiva_10 Start: 8944, Stop: 9378, Start Num: 102

Candidate Starts for Waterdiva_10:

(Start: 102 @8944 has 160 MA's), (124, 8983), (140, 9007), (169, 9088), (195, 9178), (217, 9241),

Gene: Weher20_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for Weher20_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: WhereRU_161 Start: 91595, Stop: 92011, Start Num: 112

Candidate Starts for WhereRU_161:

(Start: 108 @91589 has 1 MA's), (Start: 112 @91595 has 1 MA's), (Start: 135 @91625 has 5 MA's),
(159, 91694), (186, 91781), (207, 91847),

Gene: WillSterrel_87 Start: 51270, Stop: 51782, Start Num: 77

Candidate Starts for WillSterrel_87:

(Start: 75 @51267 has 1 MA's), (Start: 77 @51270 has 1 MA's), (Start: 120 @51330 has 1 MA's), (182,
51507), (199, 51567), (236, 51654), (256, 51720), (262, 51753),

Gene: YorkOnyx_19 Start: 14161, Stop: 14622, Start Num: 102

Candidate Starts for YorkOnyx_19:

(Start: 86 @14140 has 2 MA's), (Start: 95 @14152 has 2 MA's), (Start: 102 @14161 has 160 MA's),
(Start: 122 @14191 has 2 MA's), (148, 14242), (188, 14371), (206, 14446), (217, 14467), (230, 14512),

Gene: YorkOnyx_50 Start: 42214, Stop: 42732, Start Num: 76

Candidate Starts for YorkOnyx_50:

(Start: 76 @42214 has 16 MA's), (98, 42244), (175, 42430), (200, 42520), (205, 42532),

Gene: Yoshand_10 Start: 8941, Stop: 9375, Start Num: 102

Candidate Starts for Yoshand_10:

(Start: 102 @8941 has 160 MA's), (124, 8980), (140, 9004), (169, 9085), (195, 9175), (217, 9238),

Gene: YouGoGlencoco_10 Start: 8940, Stop: 9374, Start Num: 102

Candidate Starts for YouGoGlencoco_10:

(Start: 102 @8940 has 160 MA's), (124, 8979), (140, 9003), (169, 9084), (195, 9174), (217, 9237),

Gene: YoungHarleezy_70 Start: 37357, Stop: 37845, Start Num: 109

Candidate Starts for YoungHarleezy_70:

(Start: 109 @37357 has 3 MA's), (114, 37363), (Start: 135 @37393 has 5 MA's), (249, 37789),

Gene: Yvonnetastic_131 Start: 74014, Stop: 74502, Start Num: 91

Candidate Starts for Yvonnetastic_131:

(Start: 91 @74014 has 1 MA's), (Start: 121 @74062 has 2 MA's), (133, 74080), (165, 74179), (204, 74311), (220, 74356),

Gene: Zaider_11 Start: 9173, Stop: 9607, Start Num: 102

Candidate Starts for Zaider_11:

(Start: 102 @9173 has 160 MA's), (124, 9212), (140, 9236), (169, 9317), (195, 9407), (217, 9470),

Gene: Zelda_10 Start: 8943, Stop: 9377, Start Num: 102

Candidate Starts for Zelda_10:

(Start: 102 @8943 has 160 MA's), (124, 8982), (140, 9006), (169, 9087), (195, 9177), (217, 9240),

Gene: Zonia_10 Start: 8957, Stop: 9391, Start Num: 102

Candidate Starts for Zonia_10:

(Start: 102 @8957 has 160 MA's), (124, 8996), (140, 9020), (169, 9101), (195, 9191), (217, 9254),

Gene: Zulu_41 Start: 26737, Stop: 26375, Start Num: 137

Candidate Starts for Zulu_41:

(Start: 137 @26737 has 2 MA's), (154, 26689), (184, 26590), (210, 26512), (231, 26452),