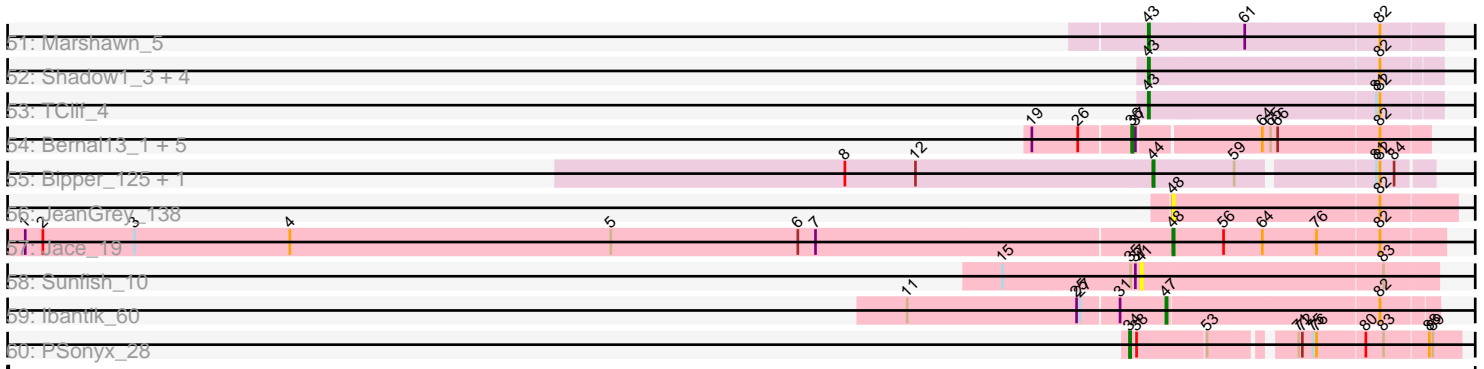


Pham 196278



Pham 196278



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 196278 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196278 has 223 members, 29 are drafts.

Phages represented in each track:

- Track 1 : Pharaoh_43
- Track 2 : Switzerland_51, Anon_46, Waits_51, Battleship_52, MinecraftSteve_52, JSwag_50, Rosalind_50
- Track 3 : Remus_51, Strosahl_51
- Track 4 : CRB1_52, 20ES_51, AN3_51, VA6_49, First_0050, LadyBird_53
- Track 5 : BengiVuitton_50, Deloris_49
- Track 6 : Anthony_44
- Track 7 : Midas2_45, PetterN_50, UnionJack_47, EITiger69_48
- Track 8 : Jabiru_47, Scorpia_50, Chadwick_49
- Track 9 : Benedict_49
- Track 10 : Jordennis_50
- Track 11 : Darrell_50
- Track 12 : Toaka_48
- Track 13 : Rahalelujah_48
- Track 14 : LoneWolf_49
- Track 15 : Vanisoa_48
- Track 16 : Sparky_92, Farewell_93
- Track 17 : Jaylociraptor_30, OlympicHelado_30, Hoshi_30, TaidaOne_30, Maya_30, Esketit_30, Namo_30, CherryBlossom_30, FidgetOrca_30, Spectropatronm_30, IceWarrior_30, TonyStarch_30, TieDye_29, Rima_30, Indigenous_30, Meibysrarus_30
- Track 18 : Bing_31
- Track 19 : BRock_64
- Track 20 : Alone3_74, LuckySocke_72
- Track 21 : GiJojo_63
- Track 22 : SpeedDemon_770, Bantam_75
- Track 23 : DatBoi_73
- Track 24 : Daredevil_66
- Track 25 : Mollymur_75
- Track 26 : Lenoshki_15, Gray_14, Kabocha_14, Hanem_14, Pakusa_14, MintFritos_14, Beted_15, Chidiebere_14, Twin_14, Aloki_14, Oogie_15, Schomber_14
- Track 27 : Beted_23, Lenoshki_23, Oogie_23
- Track 28 : Hanem_24, Aloki_23, Gray_24, Kabocha_25, Twin_23, Pakusa_23, MintFritos_23
- Track 29 : Schomber_23
- Track 30 : ChisanaKitsune_11

- Track 31 : ChisanaKitsune_20
- Track 32 : FlyingTortilla_23, ScarletRaider_23
- Track 33 : UBSmoodge_13
- Track 34 : Chidiebere_24
- Track 35 : ScarletRaider_12, FlyingTortilla_12
- Track 36 : UBSmoodge_25
- Track 37 : Kudrefre_102
- Track 38 : Sephiroth_99
- Track 39 : Syleon_102
- Track 40 : Octobien14_100
- Track 41 : ModicumRichard_94
- Track 42 : Bruin_99, Lilpickle_101, Nimrod_102, Petra64142_106, Eureka_101, Paperbeatsrock_101, DrDrey_102, ShamWow_102, Emmina_102, MPhalcon_103, BigBubba_102, SirDuracell_102, Pharsalus_99, Dusk_99, Miniwave_97, BilboSwaggins_101, Misfit_103, Contagion_98, Phaja_100, PhatBacter_105, Tarkin_101, Adnama_106, Elite2014_101, Manda_103, Marshmallow_99, Buck_103, ChosenOne_102, Harella_102, Command613_104, Phaux_104, Mindy_101, Bask21_102, Tomaszewski_97, Mosby_98, CrystalP_101, Wiggins_104, NelitzaMV_99, Barbarian_101, GoldenSpark_106, xkcd_105, Cookies_99, DoctorDiddles_101, Gator_100, Easy2Say_102, Cactus_106, Hoonter_105, Gemini_107, YassJohnny_99, Qualification_103, Inca_99, Nala_104, FireRed_105, ABCat_99, Henry_99, HufflyPuff_104, Sotrice96_103, Argent26_106, Goldilocks_105, TeardropMSU_98, Sassay_97, SophKB_100, Icee_103, Pat3_99, Youngblood_105, TBrady12_105, Tuco_103, Rimmer_100, Stank_104, Kanye_99, Asriel_100, BadStone_99, StellaBean_101, Policronamos_105, ShereKhan_100, Kostya_102, Goku_101, GooberAzure_105, Myrale_102, Daikon_102, Amao_102, Holt_107, Willez_97, Terminus_105, Toto_100, IHOP_100, Kimchi_106, Rakim_103, Traaww1_98, Balomoji_102, Flypotenuse_98
- Track 43 : Murica_105, MISSy_103
- Track 44 : StolenFromERC_104, Gage_104, Xandras_101
- Track 45 : ChotaBhai_102
- Track 46 : Quhwah_29
- Track 47 : NoodlelyBoi_26
- Track 48 : Pabst_50
- Track 49 : Phrampa_179, Mimi_192, Patbob_186
- Track 50 : Bloom_190, Racecar_187, Talia1610_187
- Track 51 : Marshawn_5
- Track 52 : Shadow1_3, Krueger_4, Ximenita_5, Syra333_4, Sunflower1121_3
- Track 53 : TClif_4
- Track 54 : Bernal13_1, Nairb_1, ZenTime222_1, Ibrahim_1, RonRayGun_1, Whitty_1
- Track 55 : Bipper_125, Cracklewink_126
- Track 56 : JeanGrey_138
- Track 57 : Jace_19
- Track 58 : Sunfish_10
- Track 59 : Ibantik_60
- Track 60 : PSonyx_28

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

The start number called the most often in the published annotations is 51, it was called in 91 of the 194 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABCat_99, Adnama_106, Amao_102, Argent26_106, Asriel_100, BadStone_99, Balomoji_102, Barbarian_101, Bask21_102, BigBubba_102, BilboSwaggins_101, Bruin_99, Buck_103, Cactus_106, ChosenOne_102, ChotaBhai_102, Command613_104, Contagion_98, Cookies_99, CrystalP_101, Daikon_102, DoctorDiddles_101, DrDrey_102, Dusk_99, Easy2Say_102, Elite2014_101, Emmina_102, Eureka_101, FireRed_105, Flypotenuse_98, Gage_104, Gator_100, Gemini_107, Goku_101, GoldenSpark_106, Goldilocks_105, GooberAzure_105, Harella_102, Henry_99, Holt_107, Hoonter_105, HufflyPuff_104, IHOP_100, Icee_103, Inca_99, Kanye_99, Kimchi_106, Kostya_102, Lilpickle_101, MISSy_103, MPhalcon_103, Manda_103, Marshmallow_99, Mindy_101, Miniwave_97, Misfit_103, Mosby_98, Murica_105, Myrale_102, Nala_104, NelitzaMV_99, Nimrod_102, Paperbeatsrock_101, Pat3_99, Petra64142_106, Phaja_100, Pharsalus_99, PhatBacter_105, Phaux_104, Policronamos_105, Quallification_103, Rakim_103, Rimmer_100, Sassay_97, ShamWow_102, ShereKhan_100, SirDuracell_102, SophKB_100, Sotrice96_103, Stank_104, StellaBean_101, StolenFromERC_104, TBrady12_105, Tarkin_101, TeardropMSU_98, Terminus_105, Tomaszewski_97, Toto_100, Traaww1_98, Tuco_103, Wiggin_104, Willez_97, Xandras_101, YassJohnny_99, Youngblood_105, xkcd_105,

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

-

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

- 20ES_51, AN3_51, Alok_i_14, Alok_i_23, Alone3_74, Anon_46, Anthony_44, BRock_64, Bantam_75, Battleship_52, Benedict_49, BengiVuitton_50, Bernal13_1, Beted_15, Beted_23, Bing_31, Bipper_125, Bloom_190, CRB1_52, Chadwick_49, CherryBlossom_30, Chidiebere_14, Chidiebere_24, ChisanaKitsune_11, ChisanaKitsune_20, Cracklewink_126, Daredevil_66, Darrell_50, DatBoi_73, Deloris_49, EITiger69_48, Esketit_30, Farewell_93, FidgetOrca_30, First_0050, FlyingTortilla_12, FlyingTortilla_23, GiJojo_63, Gray_14, Gray_24, Hanem_14, Hanem_24, Hoshi_30, Ibantik_60, Ibrahim_1, IceWarrior_30, Indigenous_30, JSwag_50, Jabiru_47, Jace_19, Jaylociraptor_30, JeanGrey_138, Jordennis_50, Kabocha_14, Kabocha_25, Krueger_4, Kudrefre_102, LadyBird_53, Lenoshki_15, Lenoshki_23, LoneWolf_49, LuckySocke_72, Marshawn_5, Maya_30, Meibysrarus_30, Midas2_45, Mimi_192, MinecraftSteve_52, MintFritos_14, MintFritos_23, ModicumRichard_94, Mollymur_75, Nairb_1, NamO_30, NoodlelyBoi_26, Octobien14_100, OlympicHelado_30, Oogie_15, Oogie_23, PSonyx_28, Pabst_50, Pakusa_14, Pakusa_23, Patbob_186, PetterN_50, Pharaoh_43, Phrampa_179, Quhwah_29, Racecar_187, Rahalelujah_48, Remus_51, Rima_30, RonRayGun_1, Rosalind_50, ScarletRaider_12, ScarletRaider_23, Schomber_14, Schomber_23, Scorpia_50, Sephiroth_99, Shadow1_3, Sparky_92, Spectropatronm_30, SpeedDemon_770, Strosahl_51, Sunfish_10, Sunflower1121_3, Switzerland_51, Syleon_102, Syra333_4, TClif_4, TaidaOne_30, Talia1610_187, TieDye_29, Toaka_48, TonyStarch_30, Twin_14, Twin_23, UBSmoodge_13, UBSmoodge_25, UnionJack_47, VA6_49, Vanisoa_48, Waits_51, Whitty_1, Ximenita_5, ZenTime222_1,

Summary by start number:

Start 31:

- Found in 2 of 223 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 194
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pabst_50 (EK1),

Start 32:

- Found in 3 of 223 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_66 (DL), Farewell_93 (AF), Sparky_92 (AF),

Start 33:

- Found in 16 of 223 (7.2%) of genes in pham
- Manual Annotations of this start: 9 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alok_i_14 (DQ), Beted_15 (DQ), Chidiebere_14 (DQ), ChisanaKitsune_11 (DQ), FlyingTortilla_12 (DQ), Gray_14 (DQ), Hanem_14 (DQ), Kabocha_14 (DQ), Lenoshki_15 (DQ), MintFritos_14 (DQ), Oogie_15 (DQ), Pakusa_14 (DQ), ScarletRaider_12 (DQ), Schomber_14 (DQ), Twin_14 (DQ), UBSmoodge_13 (DQ),

Start 34:

- Found in 28 of 223 (12.6%) of genes in pham
- Manual Annotations of this start: 25 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_51 (A2), AN3_51 (A2), BengiVuitton_50 (A2), Bing_31 (BI5), CRB1_52 (A2), CherryBlossom_30 (BI1), Deloris_49 (A2), Esketit_30 (BI1), FidgetOrca_30 (BI1), First_0050 (A2), Hoshi_30 (BI1), IceWarrior_30 (BI1), Indigenous_30 (BI1), Jaylociraptor_30 (BI1), LadyBird_53 (A2), Maya_30 (BI1), Meibysrarus_30 (BI1), Namu_30 (BI1), NoodlelyBoi_26 (EC), OlympicHelado_30 (BI1), PSonyx_28 (singleton), Quhwah_29 (EC), Rima_30 (BI1), Spectropatronm_30 (BI1), TaidaOne_30 (BI1), TieDye_29 (BI1), TonyStarch_30 (BI1), VA6_49 (A2),

Start 36:

- Found in 6 of 223 (2.7%) of genes in pham
- Manual Annotations of this start: 6 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernal13_1 (T), Ibrahim_1 (T), Nairb_1 (T), RonRayGun_1 (T), Whitty_1 (T), ZenTime222_1 (T),

Start 39:

- Found in 9 of 223 (4.0%) of genes in pham
- Manual Annotations of this start: 9 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_46 (A15), Battleship_52 (A15), JSwag_50 (A15), MinecraftSteve_52 (A15), Remus_51 (A15), Rosalind_50 (A15), Strosahl_51 (A15), Switzerland_51 (A15), Waits_51 (A15),

Start 40:

- Found in 4 of 223 (1.8%) of genes in pham

- Manual Annotations of this start: 4 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_75 (DL), DatBoi_73 (DL), Mollymur_75 (DL), SpeedDemon_770 (DL),

Start 41:

- Found in 7 of 223 (3.1%) of genes in pham
- Manual Annotations of this start: 6 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darrell_50 (A9), Jordennis_50 (A6), Pharaoh_43 (A12), Rahalelujah_48 (A9), Sunfish_10 (singleton), Toaka_48 (A9), Vanisoa_48 (A9),

Start 42:

- Found in 3 of 223 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 194
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Anthony_44 (A20),

Start 43:

- Found in 8 of 223 (3.6%) of genes in pham
- Manual Annotations of this start: 8 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Krueger_4 (K6), LoneWolf_49 (A9), Marshawn_5 (K6), Shadow1_3 (K6), Sunflower1121_3 (K6), Syra333_4 (K6), TClif_4 (K6), Ximenita_5 (K6),

Start 44:

- Found in 10 of 223 (4.5%) of genes in pham
- Manual Annotations of this start: 10 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benedict_49 (A5), Bipper_125 (Y), Chadwick_49 (A5), Cracklewink_126 (Y), EITiger69_48 (A5), Jabiru_47 (A5), Midas2_45 (A5), PetterN_50 (A5), Scorpio_50 (A5), UnionJack_47 (A5),

Start 45:

- Found in 17 of 223 (7.6%) of genes in pham
- Manual Annotations of this start: 1 of 194
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Chidiebere_24 (DQ), ModicumRichard_94 (DZ),

Start 46:

- Found in 99 of 223 (44.4%) of genes in pham
- Manual Annotations of this start: 2 of 194
- Called 6.1% of time when present
- Phage (with cluster) where this start called: Bloom_190 (FC), Mimi_192 (FC), Patbob_186 (FC), Phrampa_179 (FC), Racecar_187 (FC), Talia1610_187 (FC),

Start 47:

- Found in 30 of 223 (13.5%) of genes in pham
- Manual Annotations of this start: 17 of 194
- Called 80.0% of time when present

- Phage (with cluster) where this start called: Alok_i_23 (DQ), Alone3_74 (BS), BRock_64 (BS), Beted_23 (DQ), ChisanaKitsune_20 (DQ), FlyingTortilla_23 (DQ), GiJojo_63 (BS), Gray_24 (DQ), Hanem_24 (DQ), Ibantik_60 (singleton), Kabocha_25 (DQ), Kudrefre_102 (DU1), Lenoshki_23 (DQ), LuckySocke_72 (BS), MintFritos_23 (DQ), Octobien14_100 (DU1), Oogie_23 (DQ), Pakusa_23 (DQ), ScarletRaider_23 (DQ), Schomber_23 (DQ), Sephiroth_99 (DU1), Syleon_102 (DU1), Twin_23 (DQ), UBSmoodge_25 (DQ),

Start 48:

- Found in 2 of 223 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_19 (singleton), JeanGrey_138 (singleton),

Start 51:

- Found in 96 of 223 (43.0%) of genes in pham
- Manual Annotations of this start: 91 of 194
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ABCat_99 (E), Adnama_106 (E), Amao_102 (E), Argent26_106 (E), Asriel_100 (E), BadStone_99 (E), Balomoji_102 (E), Barbarian_101 (E), Bask21_102 (E), BigBubba_102 (E), BilboSwaggins_101 (E), Bruin_99 (E), Buck_103 (E), Cactus_106 (E), ChosenOne_102 (E), ChotaBhai_102 (E), Command613_104 (E), Contagion_98 (E), Cookies_99 (E), CrystalP_101 (E), Daikon_102 (E), DoctorDiddles_101 (E), DrDrey_102 (E), Dusk_99 (E), Easy2Say_102 (E), Elite2014_101 (E), Emmina_102 (E), Eureka_101 (E), FireRed_105 (E), Flypotenuse_98 (E), Gage_104 (E), Gator_100 (E), Gemini_107 (E), Goku_101 (E), GoldenSpark_106 (E), Goldilocks_105 (E), GooberAzure_105 (E), Harella_102 (E), Henry_99 (E), Holt_107 (E), Hoonter_105 (E), HufflyPuff_104 (E), IHOP_100 (E), Icee_103 (E), Inca_99 (E), Kanye_99 (E), Kimchi_106 (E), Kostya_102 (E), Lilpickle_101 (E), MISSy_103 (E), MPhalcon_103 (E), Manda_103 (E), Marshmallow_99 (E), Mindy_101 (E), Miniwave_97 (E), Misfit_103 (E), Mosby_98 (E), Murica_105 (E), Myrale_102 (E), Nala_104 (E), NelitzaMV_99 (E), Nimrod_102 (E), Paperbeatsrock_101 (E), Pat3_99 (E), Petra64142_106 (E), Phaja_100 (E), Pharsalus_99 (E), PhatBacter_105 (E), Phaux_104 (E), Policronamos_105 (E), Quallification_103 (E), Rakim_103 (E), Rimmer_100 (E), Sassay_97 (E), ShamWow_102 (E), ShereKhan_100 (E), SirDuracell_102 (E), SophKB_100 (E), Sotrice96_103 (E), Stank_104 (E), StellaBean_101 (E), StolenFromERC_104 (E), TBrady12_105 (E), Tarkin_101 (E), TeardropMSU_98 (E), Terminus_105 (E), Tomaszewski_97 (E), Toto_100 (E), Traaww1_98 (E), Tuco_103 (E), Wiggin_104 (E), Willez_97 (E), Xandras_101 (E), YassJohnny_99 (E), Youngblood_105 (E), xkcd_105 (E),

Summary by clusters:

There are 23 clusters represented in this pham: DL, singleton, FC, DZ, K6, BS, DQ, A15, A12, A2, A5, A6, A9, DU1, E, AF, EC, T, Y, B15, B11, A20, EK1,

Info for manual annotations of cluster A12:

- Start number 41 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A15:

- Start number 39 was manually annotated 9 times for cluster A15.

Info for manual annotations of cluster A2:

- Start number 34 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 42 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A5:

- Start number 44 was manually annotated 8 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 41 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A9:

- Start number 41 was manually annotated 4 times for cluster A9.
- Start number 43 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AF:

- Start number 32 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster B11:

- Start number 34 was manually annotated 16 times for cluster B11.

Info for manual annotations of cluster B15:

- Start number 34 was manually annotated 1 time for cluster B15.

Info for manual annotations of cluster BS:

- Start number 47 was manually annotated 4 times for cluster BS.

Info for manual annotations of cluster DL:

- Start number 32 was manually annotated 1 time for cluster DL.
- Start number 40 was manually annotated 4 times for cluster DL.

Info for manual annotations of cluster DQ:

- Start number 33 was manually annotated 9 times for cluster DQ.
- Start number 45 was manually annotated 1 time for cluster DQ.
- Start number 47 was manually annotated 8 times for cluster DQ.

Info for manual annotations of cluster DU1:

- Start number 47 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster E:

- Start number 51 was manually annotated 91 times for cluster E.

Info for manual annotations of cluster EC:

- Start number 34 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster EK1:

- Start number 31 was manually annotated 1 time for cluster EK1.

Info for manual annotations of cluster FC:

- Start number 46 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster K6:

- Start number 43 was manually annotated 7 times for cluster K6.

Info for manual annotations of cluster T:

- Start number 36 was manually annotated 6 times for cluster T.

Info for manual annotations of cluster Y:

- Start number 44 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: 20ES_51 Start: 32882, Stop: 32634, Start Num: 34

Candidate Starts for 20ES_51:

(16, 32984), (17, 32972), (Start: 34 @32882 has 25 MA's), (61, 32792), (82, 32681),

Gene: ABCat_99 Start: 61561, Stop: 61758, Start Num: 51

Candidate Starts for ABCat_99:

(13, 61384), (Start: 46 @61540 has 2 MA's), (Start: 51 @61561 has 91 MA's), (60, 61606), (64, 61624), (75, 61666), (82, 61720),

Gene: AN3_51 Start: 33253, Stop: 33005, Start Num: 34

Candidate Starts for AN3_51:

(16, 33355), (17, 33343), (Start: 34 @33253 has 25 MA's), (61, 33163), (82, 33052),

Gene: Adnama_106 Start: 60871, Stop: 61068, Start Num: 51

Candidate Starts for Adnama_106:

(13, 60694), (Start: 46 @60850 has 2 MA's), (Start: 51 @60871 has 91 MA's), (60, 60916), (64, 60934), (75, 60976), (82, 61030),

Gene: Alok_i_23 Start: 11841, Stop: 12056, Start Num: 47

Candidate Starts for Alok_i_23:

(29, 11784), (Start: 45 @11838 has 1 MA's), (Start: 47 @11841 has 17 MA's), (60, 11898), (67, 11931), (70, 11943), (71, 11946), (83, 12015),

Gene: Alok_i_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Alok_i_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: Alone3_74 Start: 28535, Stop: 28747, Start Num: 47

Candidate Starts for Alone3_74:

(Start: 47 @28535 has 17 MA's), (67, 28625), (75, 28652), (79, 28694), (81, 28706), (82, 28709),

Gene: Amao_102 Start: 60985, Stop: 61182, Start Num: 51

Candidate Starts for Amao_102:

(13, 60808), (Start: 46 @60964 has 2 MA's), (Start: 51 @60985 has 91 MA's), (60, 61030), (64, 61048), (75, 61090), (82, 61144),

Gene: Anon_46 Start: 30067, Stop: 29819, Start Num: 39

Candidate Starts for Anon_46:

(Start: 39 @30067 has 9 MA's), (71, 29935), (82, 29869),

Gene: Anthony_44 Start: 30206, Stop: 29964, Start Num: 42

Candidate Starts for Anthony_44:

(Start: 42 @30206 has 1 MA's), (52, 30173), (64, 30113), (70, 30086), (82, 30017),

Gene: Argent26_106 Start: 60795, Stop: 60992, Start Num: 51

Candidate Starts for Argent26_106:

(13, 60618), (Start: 46 @60774 has 2 MA's), (Start: 51 @60795 has 91 MA's), (60, 60840), (64, 60858), (75, 60900), (82, 60954),

Gene: Asriel_100 Start: 59208, Stop: 59405, Start Num: 51

Candidate Starts for Asriel_100:

(13, 59031), (Start: 46 @59187 has 2 MA's), (Start: 51 @59208 has 91 MA's), (60, 59253), (64, 59271), (75, 59313), (82, 59367),

Gene: BRock_64 Start: 24495, Stop: 24707, Start Num: 47

Candidate Starts for BRock_64:

(Start: 47 @24495 has 17 MA's), (67, 24585), (77, 24639), (81, 24666), (82, 24669),

Gene: BadStone_99 Start: 61130, Stop: 61327, Start Num: 51

Candidate Starts for BadStone_99:

(13, 60953), (Start: 46 @61109 has 2 MA's), (Start: 51 @61130 has 91 MA's), (60, 61175), (64, 61193), (75, 61235), (82, 61289),

Gene: Balomoji_102 Start: 60991, Stop: 61188, Start Num: 51

Candidate Starts for Balomoji_102:

(13, 60814), (Start: 46 @60970 has 2 MA's), (Start: 51 @60991 has 91 MA's), (60, 61036), (64, 61054), (75, 61096), (82, 61150),

Gene: Bantam_75 Start: 53471, Stop: 53229, Start Num: 40

Candidate Starts for Bantam_75:

(Start: 40 @53471 has 4 MA's), (Start: 47 @53450 has 17 MA's), (76, 53327), (82, 53276),

Gene: Barbarian_101 Start: 59208, Stop: 59405, Start Num: 51

Candidate Starts for Barbarian_101:

(13, 59031), (Start: 46 @59187 has 2 MA's), (Start: 51 @59208 has 91 MA's), (60, 59253), (64, 59271), (75, 59313), (82, 59367),

Gene: Bask21_102 Start: 59847, Stop: 60044, Start Num: 51

Candidate Starts for Bask21_102:

(13, 59670), (Start: 46 @59826 has 2 MA's), (Start: 51 @59847 has 91 MA's), (60, 59892), (64, 59910), (75, 59952), (82, 60006),

Gene: Battleship_52 Start: 31061, Stop: 30813, Start Num: 39

Candidate Starts for Battleship_52:

(Start: 39 @31061 has 9 MA's), (71, 30929), (82, 30863),

Gene: Benedict_49 Start: 34952, Stop: 34716, Start Num: 44

Candidate Starts for Benedict_49:

(Start: 44 @34952 has 10 MA's),

Gene: BengiVuitton_50 Start: 32835, Stop: 32587, Start Num: 34

Candidate Starts for BengiVuitton_50:

(16, 32937), (17, 32925), (Start: 34 @32835 has 25 MA's), (61, 32745), (64, 32730), (82, 32634),

Gene: Bernal13_1 Start: 89, Stop: 325, Start Num: 36

Candidate Starts for Bernal13_1:

(19, 8), (26, 47), (Start: 36 @89 has 6 MA's), (37, 92), (64, 191), (65, 197), (66, 203), (82, 287),

Gene: Beted_23 Start: 11467, Stop: 11682, Start Num: 47

Candidate Starts for Beted_23:

(Start: 45 @11464 has 1 MA's), (Start: 47 @11467 has 17 MA's), (60, 11524), (67, 11557), (71, 11572), (83, 11641),

Gene: Beted_15 Start: 5582, Stop: 5794, Start Num: 33

Candidate Starts for Beted_15:

(Start: 33 @5582 has 9 MA's), (71, 5696), (72, 5699), (73, 5702), (76, 5711), (77, 5735), (78, 5741), (80, 5750), (83, 5765), (84, 5774), (85, 5783),

Gene: BigBubba_102 Start: 59904, Stop: 60101, Start Num: 51

Candidate Starts for BigBubba_102:

(13, 59727), (Start: 46 @59883 has 2 MA's), (Start: 51 @59904 has 91 MA's), (60, 59949), (64, 59967), (75, 60009), (82, 60063),

Gene: BilboSwaggins_101 Start: 61530, Stop: 61727, Start Num: 51

Candidate Starts for BilboSwaggins_101:

(13, 61353), (Start: 46 @61509 has 2 MA's), (Start: 51 @61530 has 91 MA's), (60, 61575), (64, 61593), (75, 61635), (82, 61689),

Gene: Bing_31 Start: 25537, Stop: 25779, Start Num: 34

Candidate Starts for Bing_31:

(Start: 34 @25537 has 25 MA's), (83, 25729), (85, 25747),

Gene: Bipper_125 Start: 73005, Stop: 73226, Start Num: 44

Candidate Starts for Bipper_125:

(8, 72744), (12, 72804), (Start: 44 @73005 has 10 MA's), (59, 73074), (81, 73182), (82, 73185), (84, 73197),

Gene: Bloom_190 Start: 124505, Stop: 124735, Start Num: 46

Candidate Starts for Bloom_190:

(Start: 46 @124505 has 2 MA's), (83, 124682),

Gene: Bruin_99 Start: 60236, Stop: 60433, Start Num: 51

Candidate Starts for Bruin_99:

(13, 60059), (Start: 46 @60215 has 2 MA's), (Start: 51 @60236 has 91 MA's), (60, 60281), (64, 60299), (75, 60341), (82, 60395),

Gene: Buck_103 Start: 62073, Stop: 62270, Start Num: 51

Candidate Starts for Buck_103:

(13, 61896), (Start: 46 @62052 has 2 MA's), (Start: 51 @62073 has 91 MA's), (60, 62118), (64, 62136), (75, 62178), (82, 62232),

Gene: CRB1_52 Start: 33225, Stop: 32989, Start Num: 34

Candidate Starts for CRB1_52:

(16, 33327), (17, 33315), (Start: 34 @33225 has 25 MA's), (61, 33135), (82, 33024),

Gene: Cactus_106 Start: 60490, Stop: 60687, Start Num: 51

Candidate Starts for Cactus_106:

(13, 60313), (Start: 46 @60469 has 2 MA's), (Start: 51 @60490 has 91 MA's), (60, 60535), (64, 60553), (75, 60595), (82, 60649),

Gene: Chadwick_49 Start: 34763, Stop: 34527, Start Num: 44

Candidate Starts for Chadwick_49:

(24, 34832), (Start: 44 @34763 has 10 MA's), (72, 34640),

Gene: CherryBlossom_30 Start: 25644, Stop: 25883, Start Num: 34

Candidate Starts for CherryBlossom_30:

(Start: 34 @25644 has 25 MA's), (77, 25803), (83, 25833),

Gene: Chidiebere_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Chidiebere_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: Chidiebere_24 Start: 11838, Stop: 12056, Start Num: 45

Candidate Starts for Chidiebere_24:

(29, 11784), (Start: 45 @11838 has 1 MA's), (Start: 47 @11841 has 17 MA's), (60, 11898), (67, 11931), (71, 11946), (80, 12000), (83, 12015),

Gene: ChisanaKitsune_11 Start: 4663, Stop: 4869, Start Num: 33

Candidate Starts for ChisanaKitsune_11:

(Start: 33 @4663 has 9 MA's), (50, 4693), (55, 4726), (69, 4762), (73, 4777), (76, 4786), (77, 4810), (78, 4816), (84, 4849),

Gene: ChisanaKitsune_20 Start: 10536, Stop: 10751, Start Num: 47

Candidate Starts for ChisanaKitsune_20:

(Start: 45 @10533 has 1 MA's), (Start: 47 @10536 has 17 MA's), (60, 10593), (67, 10626), (71, 10641), (80, 10695), (83, 10710),

Gene: ChosenOne_102 Start: 60439, Stop: 60636, Start Num: 51

Candidate Starts for ChosenOne_102:

(13, 60262), (Start: 46 @60418 has 2 MA's), (Start: 51 @60439 has 91 MA's), (60, 60484), (64, 60502), (75, 60544), (82, 60598),

Gene: ChotaBhai_102 Start: 60849, Stop: 61046, Start Num: 51

Candidate Starts for ChotaBhai_102:

(13, 60672), (Start: 46 @60828 has 2 MA's), (Start: 51 @60849 has 91 MA's), (60, 60894), (64, 60912), (82, 61008),

Gene: Command613_104 Start: 61005, Stop: 61202, Start Num: 51

Candidate Starts for Command613_104:

(13, 60828), (Start: 46 @60984 has 2 MA's), (Start: 51 @61005 has 91 MA's), (60, 61050), (64, 61068), (75, 61110), (82, 61164),

Gene: Contagion_98 Start: 60598, Stop: 60795, Start Num: 51

Candidate Starts for Contagion_98:

(13, 60421), (Start: 46 @60577 has 2 MA's), (Start: 51 @60598 has 91 MA's), (60, 60643), (64, 60661), (75, 60703), (82, 60757),

Gene: Cookies_99 Start: 60775, Stop: 60972, Start Num: 51

Candidate Starts for Cookies_99:

(13, 60598), (Start: 46 @60754 has 2 MA's), (Start: 51 @60775 has 91 MA's), (60, 60820), (64, 60838), (75, 60880), (82, 60934),

Gene: Cracklewink_126 Start: 72157, Stop: 72378, Start Num: 44

Candidate Starts for Cracklewink_126:

(8, 71896), (12, 71956), (Start: 44 @72157 has 10 MA's), (59, 72226), (81, 72334), (82, 72337), (84, 72349),

Gene: CrystalP_101 Start: 61530, Stop: 61727, Start Num: 51

Candidate Starts for CrystalP_101:

(13, 61353), (Start: 46 @61509 has 2 MA's), (Start: 51 @61530 has 91 MA's), (60, 61575), (64, 61593), (75, 61635), (82, 61689),

Gene: Daikon_102 Start: 60404, Stop: 60601, Start Num: 51

Candidate Starts for Daikon_102:

(13, 60227), (Start: 46 @60383 has 2 MA's), (Start: 51 @60404 has 91 MA's), (60, 60449), (64, 60467), (75, 60509), (82, 60563),

Gene: Daredevil_66 Start: 49516, Stop: 49250, Start Num: 32

Candidate Starts for Daredevil_66:

(30, 49531), (Start: 32 @49516 has 3 MA's), (63, 49402), (71, 49369), (72, 49366), (82, 49303), (83, 49300),

Gene: Darrell_50 Start: 32937, Stop: 32701, Start Num: 41

Candidate Starts for Darrell_50:

(16, 33039), (Start: 41 @32937 has 6 MA's), (49, 32913), (82, 32745),

Gene: DatBoi_73 Start: 53464, Stop: 53222, Start Num: 40

Candidate Starts for DatBoi_73:

(Start: 40 @53464 has 4 MA's), (Start: 47 @53443 has 17 MA's), (82, 53269),

Gene: Deloris_49 Start: 32504, Stop: 32256, Start Num: 34

Candidate Starts for Deloris_49:

(16, 32606), (17, 32594), (Start: 34 @32504 has 25 MA's), (61, 32414), (64, 32399), (82, 32303),

Gene: DoctorDiddles_101 Start: 60253, Stop: 60450, Start Num: 51

Candidate Starts for DoctorDiddles_101:

(13, 60076), (Start: 46 @60232 has 2 MA's), (Start: 51 @60253 has 91 MA's), (60, 60298), (64, 60316), (75, 60358), (82, 60412),

Gene: DrDrey_102 Start: 62268, Stop: 62465, Start Num: 51

Candidate Starts for DrDrey_102:

(13, 62091), (Start: 46 @62247 has 2 MA's), (Start: 51 @62268 has 91 MA's), (60, 62313), (64, 62331), (75, 62373), (82, 62427),

Gene: Dusk_99 Start: 60790, Stop: 60987, Start Num: 51

Candidate Starts for Dusk_99:

(13, 60613), (Start: 46 @60769 has 2 MA's), (Start: 51 @60790 has 91 MA's), (60, 60835), (64, 60853), (75, 60895), (82, 60949),

Gene: Easy2Say_102 Start: 61262, Stop: 61459, Start Num: 51
Candidate Starts for Easy2Say_102:
(13, 61085), (Start: 46 @61241 has 2 MA's), (Start: 51 @61262 has 91 MA's), (60, 61307), (64, 61325), (75, 61367), (82, 61421),

Gene: EITiger69_48 Start: 34934, Stop: 34698, Start Num: 44
Candidate Starts for EITiger69_48:
(24, 35003), (Start: 44 @34934 has 10 MA's),

Gene: Elite2014_101 Start: 60438, Stop: 60635, Start Num: 51
Candidate Starts for Elite2014_101:
(13, 60261), (Start: 46 @60417 has 2 MA's), (Start: 51 @60438 has 91 MA's), (60, 60483), (64, 60501), (75, 60543), (82, 60597),

Gene: Emmina_102 Start: 60213, Stop: 60410, Start Num: 51
Candidate Starts for Emmina_102:
(13, 60036), (Start: 46 @60192 has 2 MA's), (Start: 51 @60213 has 91 MA's), (60, 60258), (64, 60276), (75, 60318), (82, 60372),

Gene: Esketit_30 Start: 25627, Stop: 25866, Start Num: 34
Candidate Starts for Esketit_30:
(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: Eureka_101 Start: 61401, Stop: 61598, Start Num: 51
Candidate Starts for Eureka_101:
(13, 61224), (Start: 46 @61380 has 2 MA's), (Start: 51 @61401 has 91 MA's), (60, 61446), (64, 61464), (75, 61506), (82, 61560),

Gene: Farewell_93 Start: 60714, Stop: 60971, Start Num: 32
Candidate Starts for Farewell_93:
(23, 60669), (Start: 32 @60714 has 3 MA's), (Start: 42 @60732 has 1 MA's), (81, 60921), (82, 60924),

Gene: FidgetOrca_30 Start: 25633, Stop: 25872, Start Num: 34
Candidate Starts for FidgetOrca_30:
(Start: 34 @25633 has 25 MA's), (77, 25792), (83, 25822),

Gene: FireRed_105 Start: 61677, Stop: 61874, Start Num: 51
Candidate Starts for FireRed_105:
(13, 61500), (Start: 46 @61656 has 2 MA's), (Start: 51 @61677 has 91 MA's), (60, 61722), (64, 61740), (75, 61782), (82, 61836),

Gene: First_0050 Start: 32758, Stop: 32510, Start Num: 34
Candidate Starts for First_0050:
(16, 32860), (17, 32848), (Start: 34 @32758 has 25 MA's), (61, 32668), (82, 32557),

Gene: FlyingTortilla_23 Start: 12855, Stop: 13073, Start Num: 47
Candidate Starts for FlyingTortilla_23:
(Start: 45 @12852 has 1 MA's), (Start: 47 @12855 has 17 MA's), (78, 13008), (81, 13026), (83, 13032),

Gene: FlyingTortilla_12 Start: 6471, Stop: 6677, Start Num: 33
Candidate Starts for FlyingTortilla_12:

(18, 6384), (28, 6447), (Start: 33 @6471 has 9 MA's), (50, 6501), (73, 6585), (76, 6594), (77, 6618), (78, 6624), (83, 6648), (84, 6657),

Gene: Flypotenuse_98 Start: 59862, Stop: 60059, Start Num: 51

Candidate Starts for Flypotenuse_98:

(13, 59685), (Start: 46 @59841 has 2 MA's), (Start: 51 @59862 has 91 MA's), (60, 59907), (64, 59925), (75, 59967), (82, 60021),

Gene: Gage_104 Start: 60933, Stop: 61130, Start Num: 51

Candidate Starts for Gage_104:

(13, 60756), (Start: 51 @60933 has 91 MA's), (60, 60978), (64, 60996), (75, 61038), (82, 61092),

Gene: Gator_100 Start: 60718, Stop: 60915, Start Num: 51

Candidate Starts for Gator_100:

(13, 60541), (Start: 46 @60697 has 2 MA's), (Start: 51 @60718 has 91 MA's), (60, 60763), (64, 60781), (75, 60823), (82, 60877),

Gene: Gemini_107 Start: 61312, Stop: 61509, Start Num: 51

Candidate Starts for Gemini_107:

(13, 61135), (Start: 46 @61291 has 2 MA's), (Start: 51 @61312 has 91 MA's), (60, 61357), (64, 61375), (75, 61417), (82, 61471),

Gene: GiJojo_63 Start: 26714, Stop: 26926, Start Num: 47

Candidate Starts for GiJojo_63:

(Start: 47 @26714 has 17 MA's), (67, 26804), (77, 26858), (81, 26885), (82, 26888),

Gene: Goku_101 Start: 61130, Stop: 61327, Start Num: 51

Candidate Starts for Goku_101:

(13, 60953), (Start: 46 @61109 has 2 MA's), (Start: 51 @61130 has 91 MA's), (60, 61175), (64, 61193), (75, 61235), (82, 61289),

Gene: GoldenSpark_106 Start: 60795, Stop: 60992, Start Num: 51

Candidate Starts for GoldenSpark_106:

(13, 60618), (Start: 46 @60774 has 2 MA's), (Start: 51 @60795 has 91 MA's), (60, 60840), (64, 60858), (75, 60900), (82, 60954),

Gene: Goldilocks_105 Start: 60712, Stop: 60909, Start Num: 51

Candidate Starts for Goldilocks_105:

(13, 60535), (Start: 46 @60691 has 2 MA's), (Start: 51 @60712 has 91 MA's), (60, 60757), (64, 60775), (75, 60817), (82, 60871),

Gene: GooberAzure_105 Start: 60795, Stop: 60992, Start Num: 51

Candidate Starts for GooberAzure_105:

(13, 60618), (Start: 46 @60774 has 2 MA's), (Start: 51 @60795 has 91 MA's), (60, 60840), (64, 60858), (75, 60900), (82, 60954),

Gene: Gray_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Gray_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: Gray_24 Start: 11841, Stop: 12056, Start Num: 47

Candidate Starts for Gray_24:

(29, 11784), (Start: 45 @11838 has 1 MA's), (Start: 47 @11841 has 17 MA's), (60, 11898), (67, 11931), (70, 11943), (71, 11946), (83, 12015),

Gene: Hanem_24 Start: 11841, Stop: 12056, Start Num: 47

Candidate Starts for Hanem_24:

(29, 11784), (Start: 45 @11838 has 1 MA's), (Start: 47 @11841 has 17 MA's), (60, 11898), (67, 11931), (70, 11943), (71, 11946), (83, 12015),

Gene: Hanem_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Hanem_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: Harella_102 Start: 61508, Stop: 61705, Start Num: 51

Candidate Starts for Harella_102:

(13, 61331), (Start: 46 @61487 has 2 MA's), (Start: 51 @61508 has 91 MA's), (60, 61553), (64, 61571), (75, 61613), (82, 61667),

Gene: Henry_99 Start: 60835, Stop: 61032, Start Num: 51

Candidate Starts for Henry_99:

(13, 60658), (Start: 46 @60814 has 2 MA's), (Start: 51 @60835 has 91 MA's), (60, 60880), (64, 60898), (75, 60940), (82, 60994),

Gene: Holt_107 Start: 61209, Stop: 61406, Start Num: 51

Candidate Starts for Holt_107:

(13, 61032), (Start: 46 @61188 has 2 MA's), (Start: 51 @61209 has 91 MA's), (60, 61254), (64, 61272), (75, 61314), (82, 61368),

Gene: Hoonter_105 Start: 61288, Stop: 61485, Start Num: 51

Candidate Starts for Hoonter_105:

(13, 61111), (Start: 46 @61267 has 2 MA's), (Start: 51 @61288 has 91 MA's), (60, 61333), (64, 61351), (75, 61393), (82, 61447),

Gene: Hoshi_30 Start: 25627, Stop: 25866, Start Num: 34

Candidate Starts for Hoshi_30:

(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: HufflyPuff_104 Start: 61903, Stop: 62100, Start Num: 51

Candidate Starts for HufflyPuff_104:

(13, 61726), (Start: 46 @61882 has 2 MA's), (Start: 51 @61903 has 91 MA's), (60, 61948), (64, 61966), (75, 62008), (82, 62062),

Gene: IHOP_100 Start: 60511, Stop: 60708, Start Num: 51

Candidate Starts for IHOP_100:

(13, 60334), (Start: 46 @60490 has 2 MA's), (Start: 51 @60511 has 91 MA's), (60, 60556), (64, 60574), (75, 60616), (82, 60670),

Gene: Ibantik_60 Start: 25970, Stop: 26188, Start Num: 47

Candidate Starts for Ibantik_60:

(11, 25754), (25, 25898), (27, 25901), (Start: 31 @25931 has 1 MA's), (Start: 47 @25970 has 17 MA's), (82, 26144),

Gene: Ibrahim_1 Start: 89, Stop: 325, Start Num: 36

Candidate Starts for Ibrahim_1:

(19, 8), (26, 47), (Start: 36 @89 has 6 MA's), (37, 92), (64, 191), (65, 197), (66, 203), (82, 287),

Gene: IceWarrior_30 Start: 25627, Stop: 25866, Start Num: 34

Candidate Starts for IceWarrior_30:

(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: Icee_103 Start: 60319, Stop: 60516, Start Num: 51

Candidate Starts for Icee_103:

(13, 60142), (Start: 46 @60298 has 2 MA's), (Start: 51 @60319 has 91 MA's), (60, 60364), (64, 60382), (75, 60424), (82, 60478),

Gene: Inca_99 Start: 59000, Stop: 59197, Start Num: 51

Candidate Starts for Inca_99:

(13, 58823), (Start: 46 @58979 has 2 MA's), (Start: 51 @59000 has 91 MA's), (60, 59045), (64, 59063), (75, 59105), (82, 59159),

Gene: Indigenous_30 Start: 25627, Stop: 25866, Start Num: 34

Candidate Starts for Indigenous_30:

(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: JSwag_50 Start: 30801, Stop: 30553, Start Num: 39

Candidate Starts for JSwag_50:

(Start: 39 @30801 has 9 MA's), (71, 30669), (82, 30603),

Gene: Jabiru_47 Start: 34807, Stop: 34571, Start Num: 44

Candidate Starts for Jabiru_47:

(24, 34876), (Start: 44 @34807 has 10 MA's), (72, 34684),

Gene: Jace_19 Start: 17315, Stop: 17536, Start Num: 48

Candidate Starts for Jace_19:

(1, 16346), (2, 16361), (3, 16439), (4, 16571), (5, 16844), (6, 17003), (7, 17018), (Start: 48 @17315 has 1 MA's), (56, 17357), (64, 17390), (76, 17435), (82, 17486),

Gene: Jaylociraptor_30 Start: 25627, Stop: 25866, Start Num: 34

Candidate Starts for Jaylociraptor_30:

(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: JeanGrey_138 Start: 105656, Stop: 105889, Start Num: 48

Candidate Starts for JeanGrey_138:

(Start: 48 @105656 has 1 MA's), (82, 105827),

Gene: Jordennis_50 Start: 31033, Stop: 30803, Start Num: 41

Candidate Starts for Jordennis_50:

(16, 31141), (Start: 41 @31033 has 6 MA's), (61, 30952), (64, 30937), (76, 30892), (82, 30841),

Gene: Kabocha_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Kabocha_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: Kabocha_25 Start: 12654, Stop: 12869, Start Num: 47

Candidate Starts for Kabocha_25:

(29, 12597), (Start: 45 @12651 has 1 MA's), (Start: 47 @12654 has 17 MA's), (60, 12711), (67, 12744), (70, 12756), (71, 12759), (83, 12828),

Gene: Kanye_99 Start: 61044, Stop: 61241, Start Num: 51

Candidate Starts for Kanye_99:

(13, 60867), (Start: 46 @61023 has 2 MA's), (Start: 51 @61044 has 91 MA's), (60, 61089), (64, 61107), (75, 61149), (82, 61203),

Gene: Kimchi_106 Start: 60936, Stop: 61133, Start Num: 51

Candidate Starts for Kimchi_106:

(13, 60759), (Start: 46 @60915 has 2 MA's), (Start: 51 @60936 has 91 MA's), (60, 60981), (64, 60999), (75, 61041), (82, 61095),

Gene: Kostya_102 Start: 60613, Stop: 60810, Start Num: 51

Candidate Starts for Kostya_102:

(13, 60436), (Start: 46 @60592 has 2 MA's), (Start: 51 @60613 has 91 MA's), (60, 60658), (64, 60676), (75, 60718), (82, 60772),

Gene: Krueger_4 Start: 823, Stop: 1062, Start Num: 43

Candidate Starts for Krueger_4:

(Start: 43 @823 has 8 MA's), (82, 1015),

Gene: Kudfre_102 Start: 58639, Stop: 58851, Start Num: 47

Candidate Starts for Kudfre_102:

(Start: 47 @58639 has 17 MA's), (66, 58729), (72, 58750), (82, 58813), (86, 58843),

Gene: LadyBird_53 Start: 33193, Stop: 32945, Start Num: 34

Candidate Starts for LadyBird_53:

(16, 33295), (17, 33283), (Start: 34 @33193 has 25 MA's), (61, 33103), (82, 32992),

Gene: Lenoshki_15 Start: 5582, Stop: 5794, Start Num: 33

Candidate Starts for Lenoshki_15:

(Start: 33 @5582 has 9 MA's), (71, 5696), (72, 5699), (73, 5702), (76, 5711), (77, 5735), (78, 5741), (80, 5750), (83, 5765), (84, 5774), (85, 5783),

Gene: Lenoshki_23 Start: 11467, Stop: 11682, Start Num: 47

Candidate Starts for Lenoshki_23:

(Start: 45 @11464 has 1 MA's), (Start: 47 @11467 has 17 MA's), (60, 11524), (67, 11557), (71, 11572), (83, 11641),

Gene: Lilpickle_101 Start: 60438, Stop: 60635, Start Num: 51

Candidate Starts for Lilpickle_101:

(13, 60261), (Start: 46 @60417 has 2 MA's), (Start: 51 @60438 has 91 MA's), (60, 60483), (64, 60501), (75, 60543), (82, 60597),

Gene: LoneWolf_49 Start: 32307, Stop: 32071, Start Num: 43

Candidate Starts for LoneWolf_49:

(14, 32427), (16, 32415), (Start: 43 @32307 has 8 MA's), (71, 32184), (82, 32118),

Gene: LuckySocke_72 Start: 27277, Stop: 27489, Start Num: 47

Candidate Starts for LuckySocke_72:

(Start: 47 @27277 has 17 MA's), (67, 27367), (75, 27394), (79, 27436), (81, 27448), (82, 27451),

Gene: MISSy_103 Start: 61721, Stop: 61918, Start Num: 51
Candidate Starts for MISSy_103:
(13, 61544), (20, 61598), (Start: 46 @61700 has 2 MA's), (Start: 51 @61721 has 91 MA's), (60, 61766), (64, 61784), (75, 61826), (82, 61880),

Gene: MPhalcon_103 Start: 61138, Stop: 61335, Start Num: 51
Candidate Starts for MPhalcon_103:
(13, 60961), (Start: 46 @61117 has 2 MA's), (Start: 51 @61138 has 91 MA's), (60, 61183), (64, 61201), (75, 61243), (82, 61297),

Gene: Manda_103 Start: 61175, Stop: 61372, Start Num: 51
Candidate Starts for Manda_103:
(13, 60998), (Start: 46 @61154 has 2 MA's), (Start: 51 @61175 has 91 MA's), (60, 61220), (64, 61238), (75, 61280), (82, 61334),

Gene: Marshawn_5 Start: 936, Stop: 1178, Start Num: 43
Candidate Starts for Marshawn_5:
(Start: 43 @936 has 8 MA's), (61, 1017), (82, 1128),

Gene: Marshmallow_99 Start: 61133, Stop: 61330, Start Num: 51
Candidate Starts for Marshmallow_99:
(13, 60956), (Start: 46 @61112 has 2 MA's), (Start: 51 @61133 has 91 MA's), (60, 61178), (64, 61196), (75, 61238), (82, 61292),

Gene: Maya_30 Start: 25641, Stop: 25880, Start Num: 34
Candidate Starts for Maya_30:
(Start: 34 @25641 has 25 MA's), (77, 25800), (83, 25830),

Gene: Meibysrarus_30 Start: 25627, Stop: 25866, Start Num: 34
Candidate Starts for Meibysrarus_30:
(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: Midas2_45 Start: 34966, Stop: 34730, Start Num: 44
Candidate Starts for Midas2_45:
(24, 35035), (Start: 44 @34966 has 10 MA's),

Gene: Mimi_192 Start: 124218, Stop: 124448, Start Num: 46
Candidate Starts for Mimi_192:
(Start: 46 @124218 has 2 MA's), (83, 124395),

Gene: Mindy_101 Start: 60454, Stop: 60651, Start Num: 51
Candidate Starts for Mindy_101:
(13, 60277), (Start: 46 @60433 has 2 MA's), (Start: 51 @60454 has 91 MA's), (60, 60499), (64, 60517), (75, 60559), (82, 60613),

Gene: MinecraftSteve_52 Start: 31065, Stop: 30817, Start Num: 39
Candidate Starts for MinecraftSteve_52:
(Start: 39 @31065 has 9 MA's), (71, 30933), (82, 30867),

Gene: Miniwave_97 Start: 60631, Stop: 60828, Start Num: 51
Candidate Starts for Miniwave_97:
(13, 60454), (Start: 46 @60610 has 2 MA's), (Start: 51 @60631 has 91 MA's), (60, 60676), (64, 60694), (75, 60736), (82, 60790),

Gene: MintFritos_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for MintFritos_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: MintFritos_23 Start: 11841, Stop: 12056, Start Num: 47

Candidate Starts for MintFritos_23:

(29, 11784), (Start: 45 @11838 has 1 MA's), (Start: 47 @11841 has 17 MA's), (60, 11898), (67, 11931), (70, 11943), (71, 11946), (83, 12015),

Gene: Misfit_103 Start: 62234, Stop: 62431, Start Num: 51

Candidate Starts for Misfit_103:

(13, 62057), (Start: 46 @62213 has 2 MA's), (Start: 51 @62234 has 91 MA's), (60, 62279), (64, 62297), (75, 62339), (82, 62393),

Gene: ModicumRichard_94 Start: 55434, Stop: 55703, Start Num: 45

Candidate Starts for ModicumRichard_94:

(Start: 45 @55434 has 1 MA's), (74, 55554), (76, 55560), (82, 55611), (83, 55614), (90, 55659),

Gene: Mollymur_75 Start: 54003, Stop: 53758, Start Num: 40

Candidate Starts for Mollymur_75:

(Start: 40 @54003 has 4 MA's), (Start: 47 @53982 has 17 MA's), (82, 53808),

Gene: Mosby_98 Start: 60598, Stop: 60795, Start Num: 51

Candidate Starts for Mosby_98:

(13, 60421), (Start: 46 @60577 has 2 MA's), (Start: 51 @60598 has 91 MA's), (60, 60643), (64, 60661), (75, 60703), (82, 60757),

Gene: Murica_105 Start: 62937, Stop: 63134, Start Num: 51

Candidate Starts for Murica_105:

(13, 62760), (20, 62814), (Start: 46 @62916 has 2 MA's), (Start: 51 @62937 has 91 MA's), (60, 62982), (64, 63000), (75, 63042), (82, 63096),

Gene: Myrale_102 Start: 61293, Stop: 61490, Start Num: 51

Candidate Starts for Myrale_102:

(13, 61116), (Start: 46 @61272 has 2 MA's), (Start: 51 @61293 has 91 MA's), (60, 61338), (64, 61356), (75, 61398), (82, 61452),

Gene: Nairb_1 Start: 89, Stop: 325, Start Num: 36

Candidate Starts for Nairb_1:

(19, 8), (26, 47), (Start: 36 @89 has 6 MA's), (37, 92), (64, 191), (65, 197), (66, 203), (82, 287),

Gene: Nala_104 Start: 61647, Stop: 61844, Start Num: 51

Candidate Starts for Nala_104:

(13, 61470), (Start: 46 @61626 has 2 MA's), (Start: 51 @61647 has 91 MA's), (60, 61692), (64, 61710), (75, 61752), (82, 61806),

Gene: Namo_30 Start: 25633, Stop: 25872, Start Num: 34

Candidate Starts for Namo_30:

(Start: 34 @25633 has 25 MA's), (77, 25792), (83, 25822),

Gene: NelitzaMV_99 Start: 59641, Stop: 59838, Start Num: 51

Candidate Starts for NelitzaMV_99:

(13, 59464), (Start: 46 @59620 has 2 MA's), (Start: 51 @59641 has 91 MA's), (60, 59686), (64, 59704), (75, 59746), (82, 59800),

Gene: Nimrod_102 Start: 61260, Stop: 61457, Start Num: 51

Candidate Starts for Nimrod_102:

(13, 61083), (Start: 46 @61239 has 2 MA's), (Start: 51 @61260 has 91 MA's), (60, 61305), (64, 61323), (75, 61365), (82, 61419),

Gene: NoodlelyBoi_26 Start: 13691, Stop: 13933, Start Num: 34

Candidate Starts for NoodlelyBoi_26:

(Start: 34 @13691 has 25 MA's), (58, 13772), (78, 13859), (83, 13883),

Gene: Octobien14_100 Start: 58045, Stop: 58257, Start Num: 47

Candidate Starts for Octobien14_100:

(Start: 47 @58045 has 17 MA's), (66, 58135), (72, 58156), (82, 58219), (87, 58252),

Gene: OlympicHelado_30 Start: 25633, Stop: 25872, Start Num: 34

Candidate Starts for OlympicHelado_30:

(Start: 34 @25633 has 25 MA's), (77, 25792), (83, 25822),

Gene: Oogie_23 Start: 11493, Stop: 11708, Start Num: 47

Candidate Starts for Oogie_23:

(Start: 45 @11490 has 1 MA's), (Start: 47 @11493 has 17 MA's), (60, 11550), (67, 11583), (71, 11598), (83, 11667),

Gene: Oogie_15 Start: 5582, Stop: 5794, Start Num: 33

Candidate Starts for Oogie_15:

(Start: 33 @5582 has 9 MA's), (71, 5696), (72, 5699), (73, 5702), (76, 5711), (77, 5735), (78, 5741), (80, 5750), (83, 5765), (84, 5774), (85, 5783),

Gene: PSonyx_28 Start: 27311, Stop: 27562, Start Num: 34

Candidate Starts for PSonyx_28:

(Start: 34 @27311 has 25 MA's), (38, 27314), (53, 27371), (71, 27431), (72, 27434), (75, 27443), (76, 27446), (80, 27485), (83, 27500), (88, 27536), (89, 27539),

Gene: Pabst_50 Start: 50450, Stop: 50701, Start Num: 31

Candidate Starts for Pabst_50:

(22, 50399), (Start: 31 @50450 has 1 MA's), (35, 50459), (Start: 47 @50489 has 17 MA's), (54, 50525), (57, 50537), (62, 50555), (64, 50567), (83, 50666),

Gene: Pakusa_14 Start: 5427, Stop: 5639, Start Num: 33

Candidate Starts for Pakusa_14:

(Start: 33 @5427 has 9 MA's), (71, 5541), (72, 5544), (73, 5547), (76, 5556), (77, 5580), (78, 5586), (80, 5595), (83, 5610), (84, 5619), (85, 5628),

Gene: Pakusa_23 Start: 11583, Stop: 11798, Start Num: 47

Candidate Starts for Pakusa_23:

(29, 11526), (Start: 45 @11580 has 1 MA's), (Start: 47 @11583 has 17 MA's), (60, 11640), (67, 11673), (70, 11685), (71, 11688), (83, 11757),

Gene: Paperbeatsrock_101 Start: 61309, Stop: 61506, Start Num: 51

Candidate Starts for Paperbeatsrock_101:

(13, 61132), (Start: 46 @61288 has 2 MA's), (Start: 51 @61309 has 91 MA's), (60, 61354), (64, 61372), (75, 61414), (82, 61468),

Gene: Pat3_99 Start: 59826, Stop: 60023, Start Num: 51

Candidate Starts for Pat3_99:

(13, 59649), (Start: 46 @59805 has 2 MA's), (Start: 51 @59826 has 91 MA's), (60, 59871), (64, 59889), (75, 59931), (82, 59985),

Gene: Patbob_186 Start: 125330, Stop: 125560, Start Num: 46

Candidate Starts for Patbob_186:

(Start: 46 @125330 has 2 MA's), (83, 125507),

Gene: Petra64142_106 Start: 61798, Stop: 61995, Start Num: 51

Candidate Starts for Petra64142_106:

(13, 61621), (Start: 46 @61777 has 2 MA's), (Start: 51 @61798 has 91 MA's), (60, 61843), (64, 61861), (75, 61903), (82, 61957),

Gene: PetterN_50 Start: 34931, Stop: 34695, Start Num: 44

Candidate Starts for PetterN_50:

(24, 35000), (Start: 44 @34931 has 10 MA's),

Gene: Phaja_100 Start: 60513, Stop: 60710, Start Num: 51

Candidate Starts for Phaja_100:

(13, 60336), (Start: 46 @60492 has 2 MA's), (Start: 51 @60513 has 91 MA's), (60, 60558), (64, 60576), (75, 60618), (82, 60672),

Gene: Pharaoh_43 Start: 32085, Stop: 31876, Start Num: 41

Candidate Starts for Pharaoh_43:

(16, 32193), (17, 32181), (Start: 41 @32085 has 6 MA's), (64, 32010), (72, 31977), (82, 31914),

Gene: Pharsalus_99 Start: 61008, Stop: 61205, Start Num: 51

Candidate Starts for Pharsalus_99:

(13, 60831), (Start: 46 @60987 has 2 MA's), (Start: 51 @61008 has 91 MA's), (60, 61053), (64, 61071), (75, 61113), (82, 61167),

Gene: PhatBacter_105 Start: 61677, Stop: 61874, Start Num: 51

Candidate Starts for PhatBacter_105:

(13, 61500), (Start: 46 @61656 has 2 MA's), (Start: 51 @61677 has 91 MA's), (60, 61722), (64, 61740), (75, 61782), (82, 61836),

Gene: Phaux_104 Start: 62237, Stop: 62434, Start Num: 51

Candidate Starts for Phaux_104:

(13, 62060), (Start: 46 @62216 has 2 MA's), (Start: 51 @62237 has 91 MA's), (60, 62282), (64, 62300), (75, 62342), (82, 62396),

Gene: Phrampa_179 Start: 126373, Stop: 126600, Start Num: 46

Candidate Starts for Phrampa_179:

(Start: 46 @126373 has 2 MA's), (83, 126550),

Gene: Policronamos_105 Start: 61941, Stop: 62138, Start Num: 51

Candidate Starts for Policronamos_105:

(13, 61764), (Start: 46 @61920 has 2 MA's), (Start: 51 @61941 has 91 MA's), (60, 61986), (64, 62004), (75, 62046), (82, 62100),

Gene: Quallification_103 Start: 61723, Stop: 61920, Start Num: 51
Candidate Starts for Quallification_103:
(13, 61546), (Start: 46 @61702 has 2 MA's), (Start: 51 @61723 has 91 MA's), (60, 61768), (64, 61786), (75, 61828), (82, 61882),

Gene: Quhwah_29 Start: 14012, Stop: 14254, Start Num: 34
Candidate Starts for Quhwah_29:
(9, 13787), (Start: 34 @14012 has 25 MA's), (76, 14150), (78, 14180), (83, 14204),

Gene: Racecar_187 Start: 125098, Stop: 125328, Start Num: 46
Candidate Starts for Racecar_187:
(Start: 46 @125098 has 2 MA's), (83, 125275),

Gene: Rahalelujah_48 Start: 31854, Stop: 31618, Start Num: 41
Candidate Starts for Rahalelujah_48:
(10, 32055), (16, 31956), (Start: 41 @31854 has 6 MA's), (49, 31830), (82, 31662),

Gene: Rakim_103 Start: 60745, Stop: 60942, Start Num: 51
Candidate Starts for Rakim_103:
(13, 60568), (Start: 46 @60724 has 2 MA's), (Start: 51 @60745 has 91 MA's), (60, 60790), (64, 60808), (75, 60850), (82, 60904),

Gene: Remus_51 Start: 30778, Stop: 30533, Start Num: 39
Candidate Starts for Remus_51:
(Start: 39 @30778 has 9 MA's), (50, 30751), (68, 30661), (82, 30583),

Gene: Rima_30 Start: 25633, Stop: 25872, Start Num: 34
Candidate Starts for Rima_30:
(Start: 34 @25633 has 25 MA's), (77, 25792), (83, 25822),

Gene: Rimmer_100 Start: 61135, Stop: 61332, Start Num: 51
Candidate Starts for Rimmer_100:
(13, 60958), (Start: 46 @61114 has 2 MA's), (Start: 51 @61135 has 91 MA's), (60, 61180), (64, 61198), (75, 61240), (82, 61294),

Gene: RonRayGun_1 Start: 89, Stop: 325, Start Num: 36
Candidate Starts for RonRayGun_1:
(19, 8), (26, 47), (Start: 36 @89 has 6 MA's), (37, 92), (64, 191), (65, 197), (66, 203), (82, 287),

Gene: Rosalind_50 Start: 30984, Stop: 30736, Start Num: 39
Candidate Starts for Rosalind_50:
(Start: 39 @30984 has 9 MA's), (71, 30852), (82, 30786),

Gene: Sassay_97 Start: 59560, Stop: 59757, Start Num: 51
Candidate Starts for Sassay_97:
(13, 59383), (Start: 46 @59539 has 2 MA's), (Start: 51 @59560 has 91 MA's), (60, 59605), (64, 59623), (75, 59665), (82, 59719),

Gene: ScarletRaider_23 Start: 12882, Stop: 13100, Start Num: 47
Candidate Starts for ScarletRaider_23:
(Start: 45 @12879 has 1 MA's), (Start: 47 @12882 has 17 MA's), (78, 13035), (81, 13053), (83, 13059),

Gene: ScarletRaider_12 Start: 6498, Stop: 6704, Start Num: 33

Candidate Starts for ScarletRaider_12:

(18, 6411), (28, 6474), (Start: 33 @6498 has 9 MA's), (50, 6528), (73, 6612), (76, 6621), (77, 6645), (78, 6651), (83, 6675), (84, 6684),

Gene: Schomber_23 Start: 11591, Stop: 11806, Start Num: 47

Candidate Starts for Schomber_23:

(29, 11534), (Start: 45 @11588 has 1 MA's), (Start: 47 @11591 has 17 MA's), (60, 11648), (67, 11681), (71, 11696), (80, 11750), (83, 11765),

Gene: Schomber_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Schomber_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: Scorpia_50 Start: 35017, Stop: 34781, Start Num: 44

Candidate Starts for Scorpia_50:

(24, 35086), (Start: 44 @35017 has 10 MA's), (72, 34894),

Gene: Sephiroth_99 Start: 58611, Stop: 58823, Start Num: 47

Candidate Starts for Sephiroth_99:

(Start: 47 @58611 has 17 MA's), (66, 58701), (67, 58704), (72, 58722), (82, 58785),

Gene: Shadow1_3 Start: 728, Stop: 967, Start Num: 43

Candidate Starts for Shadow1_3:

(Start: 43 @728 has 8 MA's), (82, 920),

Gene: ShamWow_102 Start: 61530, Stop: 61727, Start Num: 51

Candidate Starts for ShamWow_102:

(13, 61353), (Start: 46 @61509 has 2 MA's), (Start: 51 @61530 has 91 MA's), (60, 61575), (64, 61593), (75, 61635), (82, 61689),

Gene: ShereKhan_100 Start: 61969, Stop: 62166, Start Num: 51

Candidate Starts for ShereKhan_100:

(13, 61792), (Start: 46 @61948 has 2 MA's), (Start: 51 @61969 has 91 MA's), (60, 62014), (64, 62032), (75, 62074), (82, 62128),

Gene: SirDuracell_102 Start: 60347, Stop: 60544, Start Num: 51

Candidate Starts for SirDuracell_102:

(13, 60170), (Start: 46 @60326 has 2 MA's), (Start: 51 @60347 has 91 MA's), (60, 60392), (64, 60410), (75, 60452), (82, 60506),

Gene: SophKB_100 Start: 60770, Stop: 60967, Start Num: 51

Candidate Starts for SophKB_100:

(13, 60593), (Start: 46 @60749 has 2 MA's), (Start: 51 @60770 has 91 MA's), (60, 60815), (64, 60833), (75, 60875), (82, 60929),

Gene: Sotrice96_103 Start: 61234, Stop: 61431, Start Num: 51

Candidate Starts for Sotrice96_103:

(13, 61057), (Start: 46 @61213 has 2 MA's), (Start: 51 @61234 has 91 MA's), (60, 61279), (64, 61297), (75, 61339), (82, 61393),

Gene: Sparky_92 Start: 62308, Stop: 62565, Start Num: 32
Candidate Starts for Sparky_92:
(23, 62263), (Start: 32 @62308 has 3 MA's), (Start: 42 @62326 has 1 MA's), (81, 62515), (82, 62518),

Gene: Spectropatronm_30 Start: 25627, Stop: 25866, Start Num: 34
Candidate Starts for Spectropatronm_30:
(Start: 34 @25627 has 25 MA's), (77, 25786), (83, 25816),

Gene: SpeedDemon_770 Start: 55702, Stop: 55460, Start Num: 40
Candidate Starts for SpeedDemon_770:
(Start: 40 @55702 has 4 MA's), (Start: 47 @55681 has 17 MA's), (76, 55558), (82, 55507),

Gene: Stank_104 Start: 61008, Stop: 61205, Start Num: 51
Candidate Starts for Stank_104:
(13, 60831), (Start: 46 @60987 has 2 MA's), (Start: 51 @61008 has 91 MA's), (60, 61053), (64, 61071), (75, 61113), (82, 61167),

Gene: StellaBean_101 Start: 61370, Stop: 61567, Start Num: 51
Candidate Starts for StellaBean_101:
(13, 61193), (Start: 46 @61349 has 2 MA's), (Start: 51 @61370 has 91 MA's), (60, 61415), (64, 61433), (75, 61475), (82, 61529),

Gene: StolenFromERC_104 Start: 60933, Stop: 61130, Start Num: 51
Candidate Starts for StolenFromERC_104:
(13, 60756), (Start: 51 @60933 has 91 MA's), (60, 60978), (64, 60996), (75, 61038), (82, 61092),

Gene: Strosahl_51 Start: 30778, Stop: 30533, Start Num: 39
Candidate Starts for Strosahl_51:
(Start: 39 @30778 has 9 MA's), (50, 30751), (68, 30661), (82, 30583),

Gene: Sunfish_10 Start: 3392, Stop: 3637, Start Num: 41
Candidate Starts for Sunfish_10:
(15, 3278), (35, 3386), (37, 3389), (Start: 41 @3392 has 6 MA's), (83, 3593),

Gene: Sunflower1121_3 Start: 727, Stop: 966, Start Num: 43
Candidate Starts for Sunflower1121_3:
(Start: 43 @727 has 8 MA's), (82, 919),

Gene: Switzerland_51 Start: 31164, Stop: 30916, Start Num: 39
Candidate Starts for Switzerland_51:
(Start: 39 @31164 has 9 MA's), (71, 31032), (82, 30966),

Gene: Syleon_102 Start: 58815, Stop: 59036, Start Num: 47
Candidate Starts for Syleon_102:
(Start: 47 @58815 has 17 MA's), (66, 58905), (72, 58926), (82, 58989),

Gene: Syra333_4 Start: 832, Stop: 1071, Start Num: 43
Candidate Starts for Syra333_4:
(Start: 43 @832 has 8 MA's), (82, 1024),

Gene: TBrady12_105 Start: 60448, Stop: 60645, Start Num: 51
Candidate Starts for TBrady12_105:

(13, 60271), (Start: 46 @60427 has 2 MA's), (Start: 51 @60448 has 91 MA's), (60, 60493), (64, 60511), (75, 60553), (82, 60607),

Gene: TClif_4 Start: 786, Stop: 1025, Start Num: 43

Candidate Starts for TClif_4:

(Start: 43 @786 has 8 MA's), (81, 975), (82, 978),

Gene: TaidaOne_30 Start: 26275, Stop: 26514, Start Num: 34

Candidate Starts for TaidaOne_30:

(Start: 34 @26275 has 25 MA's), (77, 26434), (83, 26464),

Gene: Talia1610_187 Start: 124515, Stop: 124745, Start Num: 46

Candidate Starts for Talia1610_187:

(Start: 46 @124515 has 2 MA's), (83, 124692),

Gene: Tarkin_101 Start: 61834, Stop: 62031, Start Num: 51

Candidate Starts for Tarkin_101:

(13, 61657), (Start: 46 @61813 has 2 MA's), (Start: 51 @61834 has 91 MA's), (60, 61879), (64, 61897), (75, 61939), (82, 61993),

Gene: TeardropMSU_98 Start: 60315, Stop: 60512, Start Num: 51

Candidate Starts for TeardropMSU_98:

(13, 60138), (Start: 46 @60294 has 2 MA's), (Start: 51 @60315 has 91 MA's), (60, 60360), (64, 60378), (75, 60420), (82, 60474),

Gene: Terminus_105 Start: 62234, Stop: 62431, Start Num: 51

Candidate Starts for Terminus_105:

(13, 62057), (Start: 46 @62213 has 2 MA's), (Start: 51 @62234 has 91 MA's), (60, 62279), (64, 62297), (75, 62339), (82, 62393),

Gene: TieDye_29 Start: 25319, Stop: 25558, Start Num: 34

Candidate Starts for TieDye_29:

(Start: 34 @25319 has 25 MA's), (77, 25478), (83, 25508),

Gene: Toaka_48 Start: 32116, Stop: 31880, Start Num: 41

Candidate Starts for Toaka_48:

(16, 32218), (Start: 41 @32116 has 6 MA's), (64, 32017), (82, 31921),

Gene: Tomaszewski_97 Start: 60772, Stop: 60969, Start Num: 51

Candidate Starts for Tomaszewski_97:

(13, 60595), (Start: 46 @60751 has 2 MA's), (Start: 51 @60772 has 91 MA's), (60, 60817), (64, 60835), (75, 60877), (82, 60931),

Gene: TonyStarch_30 Start: 25633, Stop: 25872, Start Num: 34

Candidate Starts for TonyStarch_30:

(Start: 34 @25633 has 25 MA's), (77, 25792), (83, 25822),

Gene: Toto_100 Start: 61530, Stop: 61727, Start Num: 51

Candidate Starts for Toto_100:

(13, 61353), (Start: 46 @61509 has 2 MA's), (Start: 51 @61530 has 91 MA's), (60, 61575), (64, 61593), (75, 61635), (82, 61689),

Gene: Traaww1_98 Start: 60037, Stop: 60234, Start Num: 51

Candidate Starts for Traaww1_98:

(13, 59860), (Start: 46 @60016 has 2 MA's), (Start: 51 @60037 has 91 MA's), (60, 60082), (64, 60100), (75, 60142), (82, 60196),

Gene: Tuco_103 Start: 62395, Stop: 62592, Start Num: 51

Candidate Starts for Tuco_103:

(13, 62218), (Start: 46 @62374 has 2 MA's), (Start: 51 @62395 has 91 MA's), (60, 62440), (64, 62458), (75, 62500), (82, 62554),

Gene: Twin_23 Start: 11841, Stop: 12056, Start Num: 47

Candidate Starts for Twin_23:

(29, 11784), (Start: 45 @11838 has 1 MA's), (Start: 47 @11841 has 17 MA's), (60, 11898), (67, 11931), (70, 11943), (71, 11946), (83, 12015),

Gene: Twin_14 Start: 5685, Stop: 5897, Start Num: 33

Candidate Starts for Twin_14:

(Start: 33 @5685 has 9 MA's), (71, 5799), (72, 5802), (73, 5805), (76, 5814), (77, 5838), (78, 5844), (80, 5853), (83, 5868), (84, 5877), (85, 5886),

Gene: UBSmoodge_13 Start: 6871, Stop: 7077, Start Num: 33

Candidate Starts for UBSmoodge_13:

(21, 6808), (25, 6829), (Start: 33 @6871 has 9 MA's), (50, 6901), (73, 6985), (76, 6994), (77, 7018), (78, 7024), (83, 7048), (84, 7057),

Gene: UBSmoodge_25 Start: 13351, Stop: 13569, Start Num: 47

Candidate Starts for UBSmoodge_25:

(Start: 45 @13348 has 1 MA's), (Start: 47 @13351 has 17 MA's), (60, 13411), (78, 13504), (81, 13522), (83, 13528),

Gene: UnionJack_47 Start: 34507, Stop: 34271, Start Num: 44

Candidate Starts for UnionJack_47:

(24, 34576), (Start: 44 @34507 has 10 MA's),

Gene: VA6_49 Start: 32727, Stop: 32479, Start Num: 34

Candidate Starts for VA6_49:

(16, 32829), (17, 32817), (Start: 34 @32727 has 25 MA's), (61, 32637), (82, 32526),

Gene: Vanisoa_48 Start: 33142, Stop: 32909, Start Num: 41

Candidate Starts for Vanisoa_48:

(10, 33343), (17, 33232), (Start: 41 @33142 has 6 MA's), (64, 33043), (75, 33001), (82, 32947),

Gene: Waits_51 Start: 30953, Stop: 30705, Start Num: 39

Candidate Starts for Waits_51:

(Start: 39 @30953 has 9 MA's), (71, 30821), (82, 30755),

Gene: Whitty_1 Start: 89, Stop: 325, Start Num: 36

Candidate Starts for Whitty_1:

(19, 8), (26, 47), (Start: 36 @89 has 6 MA's), (37, 92), (64, 191), (65, 197), (66, 203), (82, 287),

Gene: Wiggin_104 Start: 60438, Stop: 60635, Start Num: 51

Candidate Starts for Wiggin_104:

(13, 60261), (Start: 46 @60417 has 2 MA's), (Start: 51 @60438 has 91 MA's), (60, 60483), (64, 60501), (75, 60543), (82, 60597),

Gene: Willez_97 Start: 59560, Stop: 59757, Start Num: 51

Candidate Starts for Willez_97:

(13, 59383), (Start: 46 @59539 has 2 MA's), (Start: 51 @59560 has 91 MA's), (60, 59605), (64, 59623), (75, 59665), (82, 59719),

Gene: Xandras_101 Start: 60261, Stop: 60458, Start Num: 51

Candidate Starts for Xandras_101:

(13, 60084), (Start: 51 @60261 has 91 MA's), (60, 60306), (64, 60324), (75, 60366), (82, 60420),

Gene: Ximenita_5 Start: 995, Stop: 1234, Start Num: 43

Candidate Starts for Ximenita_5:

(Start: 43 @995 has 8 MA's), (82, 1187),

Gene: YassJohnny_99 Start: 59581, Stop: 59778, Start Num: 51

Candidate Starts for YassJohnny_99:

(13, 59404), (Start: 46 @59560 has 2 MA's), (Start: 51 @59581 has 91 MA's), (60, 59626), (64, 59644), (75, 59686), (82, 59740),

Gene: Youngblood_105 Start: 61731, Stop: 61928, Start Num: 51

Candidate Starts for Youngblood_105:

(13, 61554), (Start: 46 @61710 has 2 MA's), (Start: 51 @61731 has 91 MA's), (60, 61776), (64, 61794), (75, 61836), (82, 61890),

Gene: ZenTime222_1 Start: 89, Stop: 325, Start Num: 36

Candidate Starts for ZenTime222_1:

(19, 8), (26, 47), (Start: 36 @89 has 6 MA's), (37, 92), (64, 191), (65, 197), (66, 203), (82, 287),

Gene: xkcd_105 Start: 61915, Stop: 62112, Start Num: 51

Candidate Starts for xkcd_105:

(13, 61738), (Start: 46 @61894 has 2 MA's), (Start: 51 @61915 has 91 MA's), (60, 61960), (64, 61978), (75, 62020), (82, 62074),